CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, April 2, 1908.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File 109
List of Contracts Pending 109
Railways 109
Electric Railways 110
Light and Power Plants 110
Bridges 111
Buildings 111
Water Supply and Irrigation 113
Sewerage 113
Garbage Disposal 114
Streets and Roads 114
Manufacturing Plants 114
Miscellaneous Contracts 115, 116
Contract prices 115
U. S. Possessions and Cuba..... 116
PROPOSALS 116

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	Place.	See issue.
4- 7*	Navigation pass, Wheeling, W. Va.	(S.)	3-12
4- 9	Ledge rock removal, Newport, R. I.	(S.)	3-26
4-15*	Dam, Portland, Ore.	(S.)	2-27
4-17*	Dredging, Detroit, Mich.	(S.)	3-19
4-17*	Breakwater, Boston, Mass.	(S.)	3-19
4-17*	Pumping engine, White Plains, N. Y.	(S.)	4- 2
4-20*	Pier, dredging, Milwaukee, Wis.	(S.)	3-26
5- 1	Floating crane, Quebec, Que.	(S.)	2-20
5- 1*	Reduction works, Columbus, Ohio	(S.)	3- 5

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

4- 6 Lighting fixtures, New York.... 3-26
4- 6 Elec. equipment, New York..... 3-26
4- 6 Extending plant, Moose Jaw, Sask. 3-26
4- 6 Elec. supplies, Wash., D. C..... 2-20
4- 7 Electric plant, Lecompte, La..... 2-13
4- 7 Light plant, Fort Worth, Tex.... 3-12
4-11 Conduit, etc., Bessemer, Ala..... 3-12
4-11 Conduits, etc., Portsmouth, Va.. 3-12
4-13 Elec. equipment, New York..... 4- 2
4-15 Elec. supplies, Wash., D. C..... 4- 2
4-18 Power-house, etc., Juneau, Wis.. 4- 2
4-23 Elec. plant, etc., Boston, Mass.. 4- 2
4-23 Power-house, etc., Loyal, Wis... 4- 2

BRIDGES.

4- 3 Steel bridges, Denton, Tenn..... 3-26
4- 3 Bridge, Silt, Colo..... 3-26
4- 4* Bridge work, Salem, N. J. 3-19
4- 4 Arches, etc., St. John, N. B..... 4- 2
4- 6 Bridge, Pasco, Wash.. .. .. 4- 2
4- 6 Bridges, Forman, N. Dak..... 4- 2
4- 6 Bridge repair, Lebanon, Ind..... 4- 2
4- 6 Bridge, Meridian, Miss 4- 2
4- 6 Substructure, Drummond, N. B... 4- 2
4- 6 Bridge, Port Angeles, Wash 4- 2
4- 6 Steel bridge, St. Paul, Minn..... 3-12
4- 6 Draw-bridge, Cathlamet, Wash.... 3-12
4- 6 Bridges, Scranton, Miss..... 3-26
4- 6 Steel bridge, Auburn, Cal..... 3-26
4- 6 Bridge, Connell, Wash..... 3-26
4- 7 Bridge, Chehalis, Wash..... 3-26
4- 7 Piers, etc., Cincinnati, Ohio..... 3-26
4- 7 Bridges, Crawfordsville, Ind..... 3-19
4- 7 Bridges, Valparaiso, Ind. 3-19
4- 7 Bridge, Kenmore, Ohio 3-19
4- 7 Bridges, La Moure, N. Dak. 3-19
4- 7 Bridges, Tehama, Cal 4- 2
4- 7 Bridges, Lagrange, Ind 4- 2
4- 8 Bridge, Butler, Mo.. .. .. 4- 2
4- 8 Bridges, Jacksonville, Fla.. ..... 4- 2
4- 8 Steel bridges, Birmingham, Ala.. 3-19
4- 8 Bridge, Brookings, S. Dak..... 3-12
4- 9 Wooden bridge, Vicksburg, Miss. 3-26
4- 9 Bridges, Goldendale, Wash..... 4- 2
4- 9 Bridge, Middletown, Ohio 4- 2
4-10 Bridges, Kansas City, Mo. 4- 2
4-10* Bridge, Reading, Pa.. ..... 4- 2
4-10 Bridges, Fort Meade, S. Dak..... 3-19
4-11 Steel bridges, Hamburg, Ark..... 3-26
4-13 Bridges, New Philadelphia, Ohio.. 4- 2
4-13 Substructure, Newark, Ohio 4- 2
4-14 Bridge, Eureka, Cal 4- 2
4-18 Superstructure, Lancaster, Ohio .. 4- 2
4-20 Substructure, Zanesville, Ohio.... 3-26
5- 1* Bridges, Vancouver, B. C..... 4- 2
5- 1 Bridge repair, Mauch Chunk, Pa. 4- 2
5-11 Bridge, Lane, Idaho 4- 2

BUILDINGS.

4- 4 Alterations, Chicago, Ill..... 3-26
4- 5 Building, Columbus, Ohio 3-19
4- 6 School, Cleveland, Ohio..... 3-26
4- 6 Heating, etc., New York, N. Y.. 3-26
4- 7* Post-office, Nevada, Mo. 2-27
4- 7 Masonry, etc., Madison, Wis.... 3-12
4- 7 Bank, Connellsville, Pa..... 4- 2
4- 8 Elevators, Wash., D. C..... 3-12
4- 8 Building, Elkins, W. Va..... 2-13
4- 8 Post-office, Portsmouth, Va..... 3- 5
4- 8* Building, etc., Rochester, N. Y.. 3-19
4- 8* Elevators, Wash., D. C..... 3-19
4- 8* Panel boards, Wash., D. C..... 3-26
4- 9 Post-office, Dixon, Ill..... 3- 5
4- 9* Heating, Tyler, Tex..... 3- 5
4-10* Post-office, Jackson, Miss..... 3- 5
4-11* Post-office, Bessemer, Ala..... 3- 5
4-13 Bakery (Mfg. Pl.), Wash., D. C... 4- 2
4-13 Heating, etc., New York, N. Y... 4- 2
4-14 post-office, Tacoma, Wash..... 2-27
4-14 Hospital, Columbus, Ohio 3-26
4-15* Buildings, Ft. D. A. Russell, Wyo. 3-26
4-15 Post-office, Ithaca, N. Y..... 3-12
4-15 Terminals, etc., Winnipeg, Man.. 4- 2
4-15 Creamery (Mfg. Pl.), San Luis Obispo, Cal 4- 2
4-16 Elevators, Washington, D. C..... 4- 2
4-18 Prison, St. Paul, Minn 4- 2
4-20* Heating, Green Bay, Wis..... 3-26
4-21 Library, Cincinnati, Ohio 4- 2
4-21* Hospital, Whipple Brks., Ariz.... 4- 2
4-21* Hospital, Philadelphia, Pa..... 4- 2
4-23 Heating etc., Spokane, Wash.... 3-19
4-28 Post-office, Watertown, S. Dak.. 3-19
4-28* Post-office, Crookston, Minn.... 3-19
4-30* Schools, Ft. Monroe, Va..... 4- 2
5- 4* Post-office, Bar Harbor, Me..... 3-26
5- 4* Buildings, etc., San Francisco, Cal. 3-26
5- 5 Tower, St. Paul, Minn 4- 2
5- 5* Assay office, New York..... 4- 2
5- 9* Post-office, Eugene, Ore..... 4- 2

WATER-WORKS.

4- 4* Water-works, Staatsburgh, N. Y. 3-26
4- 6 Castings, etc., Youngstown, Ohio.. 4- 2
4- 6 Water mains, Joliet, Ill..... 4- 2
4- 7* Cast-iron pipe, Oswego, N. Y.... 3-26
4- 7 Pipe, Springfield, Mo..... 3-26
4- 8* Intake crib, etc., Oswego, N. Y.. 3-26
4-10* Intake pier, Quindaro, Kan..... 3-19
4-10* Pipe, Holyoke, Mass..... 3-26
4-10 Basin, etc., Oklahoma City, Okla. 4- 2
4-10 Standpipe, Shiner, Tex 4- 2
4-13 Drain, New York, N. Y..... 4- 2
4-14 W.-Works, Palmerston, Ont..... 4- 2
4-14 W.-Works, Maxton, N. C..... 3-12
4-14* Special castings, etc., Oswego, N. Y. 3-26
4-16 Wells, Fort Dade, Fla..... 4- 2
4-17* Pumping engine, White Plains, N. Y. 3-26
4-18 Distributing system, Fort D. A. Russell, Wyo.. .... 4- 2
4-18 Water tower, Stillwater, Minn.... 4- 2
4-20 Wells, Fort Casey, Wash.. ..... 4- 2
4-20 W-Works, Versailles, Ky..... 4- 2
4-21 Pipe, Cincinnati, Ohio 4- 2
4-22 Pipe, Toledo, Ohio 4- 2
4-28 Pipe system, Malta, Ohio..... 3-26
5- 4* Pumping engines, Wilmington, Del. 4- 2
5-18* Water-works plant, Council Bluffs, Iowa 3-19

SEWERS.

4- 3 Sewer, St. Louis, Mo..... 3-26
4- 3 Pipe sewers, Waukesha, Wis.... 3-26
4- 3 Sewer, Beloit, Wis. 4- 2
4- 3 Sewers, Columbus, S. C. 4- 2
4- 3 Sewer, Rutherford, N. J..... 4- 2
4- 6 Sewer, Wichita, Kan..... 3-26
4- 6 Sewer, Fargo, N. Dak..... 3-26
4- 6 Pipe sewers, Moberly, Mo..... 3-12
4- 6 Sewers, Lawrence, Kan..... 3-19
4- 7 Sewer, La Mars, Iowa 3-19
4- 9* Sewer, Grand Rapids, Mich..... 3-19
4- 9* Sewer, Lake Placid, N. Y..... 3-26
4- 9 Sewer system, Canton, Miss..... 3-19
4- 9 Sewer, Coshocton, Ohio 4- 2
4-10 Sewers, Huron, S. Dak ..... 4 -2
4-14* Sewers, Woonsocket, R. I. 4- 2
4-15 Sewer system, Fort Slocum, N. Y. 3-19
4-15 Sewer, Alamosa, Colo..... 3-26
4-18 Sewer, Fort D. A. Russell, Wyo. 4- 2
4-18 Sewer, Oshkosh, Wis. 4- 2
4-20* Sewer pipe, Guelph, Ont..... 4- 2
4-20 Sewer, Steubenville, Ohio..... 4- 2
4-20* Sewer system, Versailles, Ky.... 4- 2

STREETS AND ROADS.

4- 3 Pike reconstruction, Somerset Pa. 3-19
4- 3 Road, Harrisburg, Pa. 3-19
4- 3 Cement sidewalks, Salt Lake City, Utah 3-26
4- 3 Macadam, West Milton, Ohio... 3-26
4- 3 Grading, Hazeldell, Pa..... 3-26
4- 3 Street Improvement, Harvey, Ill. 4- 2
4- 4 Pavements, etc., Washington, D.C. 3-26
4- 4 Stone roads, Ramsey, N. J..... 3-19
4- 4 Street improvement, Richmond, Ohio 3-19
4- 6 Gravel roads, Columbus, Ind. ... 3-19
4- 6 Road, Lawrenceburg, Ind..... 3-19
4- 6 Gravel road, Hartford City, Ind.. 3-19
4- 6 Roads, Knox, Ind. 3-19
4- 6 Road, Richmond, Ind..... 3-12
4- 6 Road, Vernon, Ind..... 3-12
4- 6 Gravel roads, Delphi, Ind..... 3-26
4- 6* Pavement, Petersburg, Va..... 3-26
4- 6 Macadam, Prescott, Ariz..... 3-26
4- 6 Sidewalks, Devils Lake, N. Dak. 3-26
4- 6 Grading, etc., Topeka, Kan..... 4- 2
4- 6 Curbing, etc., Chester, Pa..... 4- 2
4- 6 Grading, etc., Pittsburg, Pa 4- 2
4- 6 Grading, etc., Springfield, Ohio.. 4- 2
4- 6 Paving, Zanesville, Ohio..... 4- 2
4- 6 Macadam, etc., Jackson, Mo..... 4- 2
4- 6 Sidewalks, Cleveland, Ohio 4- 2
4- 6 Macadam, Oakland, Cal 4- 2
4- 6 Grading, Carrick, Pa.. .. .. 4- 2
4- 6 Pavement, Lagrange, Ind 4- 2
4- 7 Road Improvement, Clarksburg, Md 3-26
4- 7 Sidewalks, Belleville, N. J.... ... 4- 2
4- 7 Gravel roads, Washington, Ind.. 3-26
4- 7 Road, Jasper, Ind..... 3-12
4- 7 Gravel road, Vincennes, Ind..... 3-12
4- 7 Broken stone, Bloomfield, N. J... 3-19
4- 7 Gravel roads, Martinsville, Ind... 3-19
4- 8 Sidewalks, Brooklyn, N. Y..... 3-26
4- 8 Gravel roads, Noblesville, Ind.... 4- 2
4- 9 Roads, Kokomo, Ind 4- 2
4- 9 Pavement, Concord, N. H. 4- 2
4- 9 Trap rock, etc., Brooklyn, N. Y.. 3-26
4-10 Grading, etc., Sweetwater, Tenn.. 3-26
4-10 Grading, etc., Spokane, Wash 4- 2
4-10 Paving, Janesville, Wis 4- 2
4-11 Sidewalks, Lake Village, Ark 4- 2
4-13 Gravel plant, New Brighton, Minn. 4- 2
4-13 Paving, Reno, Nev..... 3-26
4-13* Stone road, Freehold, N. J..... 3-26
4-14* Street repair, Peoria, Ill..... 3-26
4-14 Grading, etc., Hopewell, N. J..... 4- 2
4-14 Macadam, Concord, N. H 4- 2
4-14 Grading, Oxnard, Cal 4- 2
4-15 Roads, Kokomo, Ind 4- 2
4-16 Asphalt repair, New York, N. Y. 4- 2
4-16 Roads, Washington, Pa..... 3-26
4-17 Road Improvement, Cincinnati, O. 4- 2
4-18 Resurfacing, etc., Indianapolis, Ind... .. .. 4- 2
4-18 Pavement, Tomah, Wis 4- 2
4-20 Paving, Chehalis, Wash 4- 2
4-20 Grading, etc., Ashland, Ohio 3-26
5- 1* Paving, San Salvador, Salvador, C. A. 3-12
5- 1 Paving, Huntsville, Ala 4- 2

MISCELLANEOUS.

4- 3 Steel rails, Panama 3-26
4- 3 Hose, New York, N. Y..... 3-26
4- 3 Ditches, Alexandria, Minn 4- 2
4- 4 Dredging plant, etc., Moline, Ill.. 4- 2
4- 4 Dredging, Champaign, Ill..... 4- 2
4- 5 Steel plates, Sorel, Que..... 4- 2
4- 6 Ambulance, Hartford, Conn..... 3-26
4- 6 Mooring stones, Portland, Me... 3-26
4- 6* Light-house, etc., Wilmington, Del. 3-19
4- 6* Dredge machinery, Cincinnati, O. 3- 5
4- 6* Dredging, dredging plant, Duluth, Minn. 3-12
4- 6 Garbage removal, Hartford, Conn. 4- 2
4- 7* Machinery repairs, Tompkinsville, N. Y. 3-12
4- 7* Navigation pass, Wheeling, W. Va. 3-12
4- 7* Dredging, New York, N. Y..... 3-12
4- 7 Wooden pier, Rye, N. Y..... 3-26
4- 7 Ditches, Pocahontas, Iowa..... 3-26
4- 7 Drain, Rockwell City, Iowa..... 3-26
4- 7 Cement, Winnipeg, Man..... 4- 2
4- 8 Traveling cranes, Brooklyn, N. Y. 4- 2
4- 9 Sprinkling, New York, N. Y..... 4- 2
4- 9 Lawn mowers, New York, N. Y.. 4- 2
4- 9* Ledge rock removal, Newport, R. I. 3-12
4- 9 Steel plate, Duluth, Minn..... 3-19
4-10 Dredging, New York..... 4- 2
4-10* Dredging, New York 3-12
4-10 Wire fence, Edmonton, Alta.... 3-26
4-10 Drainage ditches, Fort Meade, S. Dak. 3-26
4-11 Ditch, Frankfort, Ind..... 4- 2
4-11* Metal work, Wilmington, Del.... 3-26
4-13 Cement, Panama 3-12
4-13 Garbage Furnace, Tarentum, Pa.. 4- 2
4-14 Ferryboat, Sandpoint, Idaho..... 4- 2
4-15 Wall, Oakland, Cal..... 4- 2
4-15 Derricks, Brooklyn, N. Y..... 4- 2
4-15 Dam, etc., Portland, Ore..... 3-26
4-16 Trolley tracks, New York..... 4- 2
4-17* Breakwater, Boston, Mass..... 3-19
4-17* Dredging, Detroit, Mich..... 3-19
4-17 Tow boats, Cincinnati, Ohio 3-26
4-20* Pier, dredging, Milwaukee, Wis. 3-26
4-20 Wharf, causeway, New Orleans, La. 4- 2
4-21 Barge canal, Albany, N. Y..... 3-26
4-21* Structural steel, Boston, Mass.... 4- 2
4-23* Monument, Charleston, S. C.... 3-26
4-24 Breakwater, Toronto, Ont..... 3-26
4-24* Steam roller, Holyoke, Mass.... 4- 2
4-25 Monument, Washington, D. C... 4- 2
4-28* Rock removal, New York..... 3-19
4-30* Test borings, St. Louis, Mo..... 4- 2
4-30* Dredging, Boston, Mass..... 4- 2
5- 1* Concrete sea-wall, Key West, Fla. 3-26
5- 1 Floating crane, Quebec, Que..... 2-20
5- 4* Sea wall, wharves, San Francisco, Cal. 3-19
5- 4 Ditch, Juneau, Wis 4- 2
5-11* Reduction works, Columbus, O... 2-20

FOREIGN.

4-10 Bridge, Netherlands 3-19
4-13 Cement, Egypt 3-19
4-14 Laying cables, Australia 3-19
4-25 Dredger, Argentina 2-13
5- 1 Elec. railway, Argentina.....11-21
5- 6 Ry. concession, Spain 3-19
5-26 'Phone material, Australia..... 2-13

CIVIL SERVICE.

4- 8 Arch. Steel Draftsman, Tompkinsville, N. Y..... 3-26
4- 8 Marine steam engineer, Seattle, Wash. 3-26
4-15 Engineer, Arizona 3-26
4-15 Scientific asst., Wash., D. C.... 3-26
4-15 Junior engineer, Wash., D. C.... 3-26
4-15 Asst. engineer, Wash., D. C.... 3-26
4-18 Conduit inspector, Albany, N. Y.. 3-26
4-18 Mech. engineer, Albany, N. Y... 3-26
4-18 Asst. chief engr., Albany, N. Y.. 3-26
4-18 Asst. C. E., Albany, N. Y..... 3-26
4-18 C. E. draftsman, Albany, N. Y.. 3-26
4-22 Grain standardization assistant, Washington, D. C..... 3-26
4-29 Magnetic Observer, Wash., D. C. 3-26
4-29 Blacksmith, Browning, Mont..... 3-26
5- 6 Apprentice, Wash., D. C..... 3-26

RAILWAYS.

AJO VALLEY R. R.—This company has been incorporated in Arizona to build a railroad from Theba, near Gila Bend, Ariz., to the Ajo mining district. Capital stock, $3,000,000. Survey has been made by F. A. Bordwell, of Tucson, Ariz. Jones & Meehan, 10 Tremont St., Boston, are the promoters.

BRINSON RY.—G. M. Brinson, Pres., Springfield, Ga., advises us that company expects to do its own construction on proposed extensions. Shareholders of this company will meet in Savannah, Ga., on April 6 to authorize an issue of bonds for the purpose of providing funds for extension. The company was incorporated in Georgia in May, 1906, with $1,000,000 authorized capital stock. It has finished 29 miles of road from Savannah to a point four miles beyond Springfield, Ga., and has purchased terminal properties at Savannah. The total expenditure is said to have been $425,000. An application for approval of an issue of bonds will be considered by the Georgia Railroad Commission on April 8. R. A. Blandford is Ch. Engr.

BROOKVILLE & MAHONING.—The MILLER CONSTRUCTION CO., of Lock Haven, Pa., has been awarded contract to build a 4-mile extension to the B. & M., near Brookville, Pa. W. W. Henshey is Ch. Engr., Brookville. Noted fully on March 19.

CAMILLA & NEWTON.—The railway is now graded and is owned by Benton Odom, of Newton, Ga., and C. Horace McCall, of Atlanta, Ga. Line is ten miles long, and after completion it is expected to materially increase the mileage. The present owners desire a partner with funds.

CANADIAN VALLEY.—Incorporated in Oklahoma with a capital stock of $2,000,000 for the purpose of building a railway from Fort Supply, Woodward County, to Oklahoma City, Okla., 150 miles. The headquarters of the company are at Mutual, Okla. E. O. McCane, of Mutual, is interested.

CAPE HORN.—Incorporated in Washington to build a logging road from Prindle's Landing on the Columbia River to section 18, township 3, range 6 east. Capital stock, $100,000. The incorporators are: Edward J. Blazier, John E. Blazier, Eugene Blazier and H. S. Housten, of Portland, Ore., and E. R. Schoffield, of Vancouver, Wash.

CROW'S NEST & NORTHERN.—Construction work is to be started as soon as the weather permits. It is announced that it is the intention of the company to have the line finished before next winter. Right-of-way has been secured and surveys made. Contracts for grading, track laying, bridges, etc., will be let about May 15, as noted on March 19. The line is to be built to market the output of the Crown Coal & Coke Co., and of the Michel Coal Mines, Ltd. The office of the company is to be at Crow's Nest, B. C. R. J. Belden, of the Crown Coal & Coke Co., Spokane, Wash., is a director. The Canadian Parliament has passed a bill authorizing this recently-incorporated company to build its proposed railway. Capital stock, $2,000,000.

DANVILLE, COLUMBIA & SCOTTSVILLE.—Contract has been awarded to ANTHONY CRUSO, of Cincinnati, Ohio, it is stated, for building the first 20 miles of this road from Danville, Ky., south. The road will extend from Danville via Hustonville, Liberty and Columbia to Scottsville, Ky. Leslie M. Shaw is Treas., and J. H. Sullivan, Engr., both of Danville, Ky.

FREDERICKSBURG & SOUTHERN.—This company has withdrawn its application to build a line from Fredericksburg to Doswell, near Ashland, Va. The company may apply for a more extensive charter. Henry. W. Anderson, of Richmond, is counsel for the company. Noted on March 12.

GEORGIA, ALABAMA & WESTERN—Chartered in Georgia to build a line 60 miles long from Camilla via Newton to Fort Gaines, Ga. J. A. Kauffman, of Atlanta, to whom the charter was issued, is reported as saying that C. V. Sprinkle, of Vincennes, Ind., will furnish most of the capital and will build the road. Capital stock, $500,000. Headquarters will be in Atlanta. In addition to those named, the incorporators include J. A. McLeary and J. B. Shaw, of Atlanta; G. L. Wade, C. E. Watt, Bennett & Cox, W. N. Spence and McRae & McNeill, of Camilla; R. L. and W. H. Hall, H. A. Ledbetter and W. T. Livingston, of Newton; H. M. Calhoun, W. J. Horsley, B. H. Askew, J. S. Cowart, W. E. Sanders and L. F. Murray, of Arlington, and W. H. Hallaway, of Bluffton, Ga. Noted on Feb. 27.

GRAND TRUNK PACIFIC. — FOLEY, WELCH & STEWART, of Winnipeg, Man., have sublet the following contracts on the main line near Edmonton, Alta.: CHARLES LAWRENCE, six miles; G. FITZGERALD, twelve miles; JOHN TIMOTHY, eight miles; FITZGERALD & TOMPKINS, five miles; F. MANN, three miles; McDONALD & McALISTER, ten miles. H. J. Fetter, Edmonton, has charge of subletting the contracts for Foley, Welch & Stewart.

PHELAN & SHIRLEY, of Edmonton, Alta., have secured the contract for grading a 40-mile section near Clover Bar, to the east of Edmonton.

The Grand Trunk Pacific Ry. Co. has awarded the contract for the construction of the Prince Rupert terminal section in British Columbia to ELY BROS., LARSEN & STUART, Winnipeg, Man.

INTER LAKE.—Incorporated in Illinois to build a railway from a point on the shore of Lake Michigan, in Cook County, to a point on the shore of Fox Lake, in Lake County. Capital stock, $5,000. The incorporators are: Otto Heper, G. H. Coney, Martin F. Smith, A. F. Struckman and G. S. Meicher, all of Chicago.

IRON MOUNTAIN & GREENBRIER.—A. J. Moxham, of Wilmington, Del., has purchased this railroad from T. J. Shyrock & Co., of Baltimore. The property will be operated by the Goshen Iron Co., of Wilmington. The line is 28 miles long. F. A. Hauck is Supt., White Sulphur Springs, W. Va.

LAKE SUPERIOR, LONG LAKE & ALBANY.—Application is being made at the present session of the Ontario Legislature for an act extending the time three years for the commencement of construction of this line. Clarke, Bowes & Swabey, Toronto, Ont., are attorneys for the company.

MEXICAN INTERNATIONAL. — Contract for about nine miles of standard gage road, commencing off the main line at Sabinas and penetrating the new coal fields of the Cloete Co. has been let to BAT CORRIGAN, of Monterey, Mex.

MEXICO.—Bids will be asked in June by P. O. Pruto, P. O. Box 138, Parral, Chihuahua, to build a line from Parral east to Jiminez, 60 miles.

MOBILE & WEST ALABAMA.—Directors have been elected as follows: M. J. Martin, J. W. McDonald, E. J. Lynett, M. E. McDonald and Alexander A. Sherrerd, of Scranton, Pa.; J. E. Burr, of Carbondale, Pa.; F. G. Blair, of Tuscaloosa, Ala.; N. G. Winn, of Demopolis, Ala.; J. A. Montgomery, of Birmingham, Ala.; L. A. May, of New York City; and H. Austill, of Mobile, Ala. This company proposes to build a railroad in western Alabama.

RAWHIDE WESTERN.—The CALIFORNIA CONSTRUCTION CO., of Rawhide, has been given the contract for construction of this road from Rawhide, Nev., to a connection with the Tonopah & Goldfield, 29 miles. The capital stock of the company is $1,000,000. The incorporators were Charles J. Sadler of Reno, Nev.; A. D. Renfro and Fred Grutt; of Rawhide, Nev.; Joel Whitten Hick of San Francisco, Cal., and S. D. Crump, of Rawhide, Nev. Estimated cost, $300,000 to $500,000. See item under "Nevada Central" in issue of March 26.

ROME & OSCEOLA.—Incorporated in New York to build a standard-gage railroad from Rome to Osceola, N. Y., 25 miles. Capital stock, $500,000. The incorporation is for 999 years. The use of steam, electric or other mechanical power is permitted. The building of the road will make accessible in a commercial way large tracts of thickly timbered land. It will mean the destruction of some splendid forests, it is said. The directors named for the first years are: W. Pierrepont White, Utica; Hugh White, Utica; David Swancott, Lee Center; Jay A. Pease, Boonville; William I. Taber, Utica; W. S. Jones, Pierrepont Manor; Jonathan S. Haselton, Rome; Thomas H. Stryker, Rome; Franklin A. Ethridge, Rome; John S. Wardwell, Rome; Fred. M. Shelley, Rome; Edward H. Comstock, Rome; John D. McMahon, Rome. The principal office of the company is to be located in Rome.

SHARON R. R. (Erie).—The stockholders of the Sharon R. R. Co., known now as the New Castle branch of Erie, met at Sharon on March 23 and voted to increase the capital stock of the line from $800,000 to $1,600,000. The company has planned to practically rebuild the present line from Ferrona, above Sharon, to New Castle, Pa. Curves will be eliminated, and the road will be double-tracked for nearly the entire distance. New yards will be built, and terminal facilities at both ends of the line will be bettered. It is proposed to make the improvements at the following estimated cost: Improving the line between Ferrona and New Castle, $300,000; double-tracking what is now a single-track line between Wheatland and Ferrona, $200,000; additions to the yard at Ferrona, $130,000; building a new engine house at Ferrona, $75,000. F. L. Stuart is Ch. Engr., 11 Broadway, New York.

SOUTHERN UTAH.—We are officially advised that location surveys will be completed soon. This railway is to be built in connection with the Consolidated Fuel Co.'s coal mines. Construction contracts probably will be let soon. J. H. R. Franklin is Pres.; A. A. Sweet is Gen. Mgr., both at Salt Lake City, and John F. Williamson, Price, Utah, is Ch. Engr. Noted on Dec. 19.

TEXAS & PACIFIC.—L. S. Thorne, Vice-Pres. and Gen. Mgr. of the Texas & Pacific, notified the Railroad Commission of Texas on March 18 that this company will be unable on account of the condition of the money market to comply with the orders issued by the commission requiring it to make expensive improvements in its track and to purchase a large amount of new equipment. It is further stated that the improvements ordered are not needed at this time even if it were possible to get the money with which to make them.

WOLCOTTVILLE & COLDWATER.—O. G. Wales, Pres., 100 North Eleventh St., St. Louis, Mo., advises us that it is proposed to build between Wolcottville and Coldwater, Mo., 30 miles, and that it is expected to begin construction soon.

YOUGHIOGHENY & CHEAT RIVER.—Construction work will be started soon on this proposed railroad. Surveys have been completed and it is expected that contracts will be awarded this month. Edmund W. Mudge, Frick Bldg., Pittsburg, Pa., is Pres. of the company, which was chartered a few months ago. A large coal and timber tract will be tapped and it is probable that the road will be extended later. The company has a paid up capital of $300,000, and the same interests, including the Keisters and Overholts, of Uniontown, are said to be interested in the recently formed $1,000,000 North Preston Coal Company. The plans call for a line along the Cheat River to a connection with the Baltimore & Ohio Railroad.

ELECTRIC RAILWAYS.

CAMDEN, N. J.—William S. Casselman of the West Jersey Title & Guaranty Co., of Camden, has been appointed receiver for the Delaware & Atlantic City R. R. Co. Both sides agreed to the appointment of Mr. Casselman. It was explained to the court that the company's only asset was $104,000 deposited with the Secretary of State as a guarantee that it would construct a railroad between Camden and Atlantic City, the deposit being at the rate of $2,000 per mile. The court fixed the bond of the receiver at $104,000. There has been more or less litigation over the affairs of the company recently. The company was organized in 1899 with a capital of $6,000,000. The proposed electric line was to compete with the West Jersey & Seashore Railroad.

POTTSTOWN, PA. — The Pottstown & Reading St. Ry. Co. may construct an extension to Linfield, Pa., this summer. C. T. Leland is Secy. and Pur. Agt., Philadelphia. Harry Sweinhart, Pottstown, is Gen. Mgr. and Supt.

ELLWOOD CITY, PA.—On March 27, a charter was granted to the Ellwood City & Wurtemberg Electric Ry. Co. to construct a 3-mile line. Capital, $18,000. The directors are J. T. Macklin, Frisco, Beaver County, Pa.; John M. Curry, S. P. Turner, J. N. Kirker, S. C. Van Gorder, H. G. French and J. H. Newton, Wurtemberg, and J. Z. French and A. Tortier, Ellwood City. Noted on March 19.

HANOVER, PA.—An extension will be built at once by the Hanover & McSherrystown St. Ry. Co., from Hanover to Littlestown, Pa., seven miles in length. JOHN DOBBLING, of York, Pa., has contract. An extension may be built also from McSherrystown to New Oxford, a distance of five miles. The projected line will then be constructed to Berlin Junction, when the East Berlin Ry. (7 miles long) will be electrified and continued through Abbottstown to East Berlin. After the line to Littlestown is completed it is proposed to extend the railway to Gettysburg, ten miles distant. Robt. E. Manley is Gen. Mgr., Hanover.

WILMINGTON, DEL.—The Diamond State Rapid Transit Co. will begin construction of its proposed line soon, according to J. W. Endean, Ch. Engr., and Gen. Mgr., Smyrna, Del. The NATIONAL CONSTRUCTION CO., which was recently incorporated, will construct the road. The total length of the proposed railway will be 98 miles, and it will connect the following cities: Wilmington, New Castle, Delaware City, St. Georges, Odessa, Smyrna, Dover, Camden, Magnolia, Frederica, Milford, Milton, Lewes and Rehoboth. Company will install overhead trolley system. A power station will be built at St. Georges, Del., with the repair shops at St. Georges, Smyna and Milford. The authorized capital stock is $3,000,000 of which $50,000 has been issued. The other officers are as follows: M. V. Ford, Pres.; S. Derrickson, Vice-Pres.; H. Hartman, Secy. and Treas.; all of Smyrna. In December, 1907, we were advised by Mr. Endean, who was Pres. and Ch. Engr. of the Smyrna, Kent County & Delaware Bay Traction Co., Smyrna, that "construction contracts probably will be let in the near future for building this proposed line. It will extend from Delaware City to Milford, Del., 68 miles. Right-of-way and capital have been secured. Surveys are under way." Noted on Dec. 19.

ATLANTA, GA.—We are officially informed that the Atlanta & Carolina Ry. Co. will let contracts about June 1 for its proposed electric line between Atlanta and Augusta, Ga., which will be 200 miles in length. Surveys are made. Right-of-way and capital have been secured. J. W. English is Pres. and Matthew Nason is Vice-Pres. and Gen. Mgr., at Atlanta. Noted on March 19 and Feb. 20.

Ethan Philbrick, Ch. Engr. of the Atlanta, Norcross & Gainesville Elec. R. R. Co., Baldwin, Ga., advises us that company is not yet ready to let contracts for construction of its line. H. D. Jaquish, of Gainesville, Ga., is Pres. The proposed railway will be 53 miles long, connecting Atlanta and Gainesville, practically paralleling the Southern Ry. Hydro-electric power will be used. Noted on Feb. 27.

NASHVILLE, TENN.—Construction will be resumed on the Nashville Interurban Railroad in April. As stated on Jan. 16 a contract has been made with the Nashville Railway & Light Co. whereby that company will furnish the power for operating the road. The company proposes to build from Nashville to Mt. Pleasant, Tenn., 67 miles. The first section, to Franklin, now under construction, is 20 miles long. D. A. Proctor is Ch. Engr. of Const., Nashville; H. H. Mayberry is Pres.

BELLEFONTAINE, OHIO. — The City Council has granted the Ohio Electric Ry. Co. a 20-year franchise for an entrance to the city for its Lima-Bellefontaine line. F. A. Healy is Secy., Cincinnati.

NELSONVILLE, OHIO.—Construction will be started on the Nelsonville-Athens section of the Nelsonville, Athens & Glouster Traction line this spring. The line will be operated either by electricity or gasoline motors. It will serve the following cities and towns: Nelsonville, New Floodwood, Chauncey and Athens. A line will also be built from Chauncey through Jacksonville, Glouster, Murray City, Buchtel and back to Nelsonville. L. F. Carpenter is Pres.; C. W. Juniper, Secy.; Charles Tutt, Gen. Mgr., all of Nelsonville. Franchises have been secured. Noted on Feb. 27.

CLEVELAND, OHIO.—Right-of-way has been secured by the Cleveland, Brooklyn & Elyria Ry. Co. from Cleveland to Zanesville. The line, after leaving the Wooster Pike at Parma, will run south via North Royalton, Richfield, Bath, Copley, Loyal Oak, Barberton, Johnstown, Hametown, Easton, Doylestown (with a spur to Rittman), Marshallville, Orrville, Maysville, Mount Hope, Benton, Millersburg, Beck's Mills, Mound, Bloomfield, Keene, East Lewisville, Coshocton, Wills Creek, Adams' Mills, Marquand, Ferncliff, Adamsville and Sonora to Zanesville. The present officers of the Cleveland, Brooklyn & Elyria Co. are: W. E. Brooks, Elyria, Pres.; J. J. Breitinger, Cleveland, Vice-Pres.; J. Henry Knisely, Jr., Toledo, Secy., and B. E. Ottman, Cleveland, Treas. At the annual meeting on May 7 new interests are expected to enter the directorate. This company will be absorbed by a new company, to be known as the Cleveland, Orrville, Coshocton, Zanesville & Elyria Ry. Co. Noted officially on Nov. 21, 1907.

SOUTH BEND, IND.—J. M. Caulfield, First Vice-Pres. of the Kalamazoo, Elkhart & South Bend Traction Co., 238 Paris St., South Bend, advises us that this company has secured right-of-way and franchises for an electric line to connect the cities named in the title, a distance of 73 miles. The private right-of-way is 50 to 100 ft. wide. Surveys, maps, profiles and estimates have been completed. As previously noted, the company is in a position to furnish 25% of the cost of construction and equipment and to begin work within 30 days after the road is financed. Contracts will be let when capital is secured. Officers are as follows: Pres., A. D. Harris; First-Vice-Pres., J. M. Caulfield; Secy., E. C. Vincent; Treas., A. Hunsberger; Auditor, J. A. Bowman; Attorney, F. E. Lambert. M. L. Morris is Ch. Engr.

CALUMET, MICH.—The Houghton County St. Ry. Co. will begin construction next month on its extension from Calumet to Mohawk, seven miles, and from Houghton to Pawesdale, Mich., eleven miles. W. H. McGrath is Mgr., Houghton, Mich.; Stone & Webster are Gen. Mgrs., 147 Milk St., Boston, Mass.

CHICAGO, ILL.—The Calumet & South Chicago Ry. Co. has been incorporated in Illinois to effect a consolidation of the South Chicago City Ry. and the Calumet Electric Street Ry., under the provisions of a new franchise extension ordinance now pending before the Chicago City Council. Capital stock, $1,000. Incorporators: L. A. Busby, H. P. Weber and E. B. Hamilton. Noted fully on Feb. 20.

RED OAK, IOWA.—H. C. Deemer, of Red Oak, who is interested in the promotion of an electric railway to connect Red Oak and Des Moines, writes us that preliminary survey only has been made. Right-of-way and capital for construction have not been secured yet. The proposed line will be 100 miles long. Noted on Feb. 13.

BOZEMAN, MONT.—The Gallatin Valley Electric Ry. Co. has been incorporated in Montana to build an electric railway 28 miles long from Bozeman, Mont., to points in the farming districts of that section. Incorporators are: W. S. Hartman and C. D. Hartman, Bozeman, Mont.; and C. H. Winfree, Spokane, Wash.

DALLAS, TEX.—Grading is practically completed on the Texas Traction Co.'s projected line, the bridge and trestle work is nearly finished, 32 miles of track have been land on the line between Dallas and Sherman, Tex., (a distance of 63 miles), and 25 miles of poles have been erected. All of the rails have been delivered and much of the material for the overhead work. Most of the equipment has been installed in the power-house at McKinney and the four substations will be completed early this month. F. A. Jones is Ch. Engr., Dallas. Noted on Jan. 30.

The Dallas Interurban Electric Ry. Co. has petitioned for an extension of two years in which to begin work on the construction of its proposed system of local and interurban lines. The present franchise would have expired on April 1, 1908. Under the new franchise the company must have 30 miles of track laid by December, 1910. The company was incorporated several months ago to build 30 miles of street railway in Dallas and interurban lines from Dallas to Sherman, Denison, Greenville, Terrell and Tyler, Tex. A portion of the right-of-way has been secured and preliminary surveys made. Henry Dorsey is Pres., Dallas. Noted on Feb. 20.

ASHLAND, ORE.—The Oregon Rapid Transit Co. has elected officers as follows: F. C. Page, Pres.; F. E. Merrick, Treas.; S. E. Nye, Secy., and Capt. F. L. Adams, Gen. Mgr. This company plans to build a network of railways to cover the Rogue River Valley from Grants Pass to Ashland. Water rights have been located for the development of about 30,000 HP., but at present negotiations are under way to secure power from the Condor Water & Power Co. Noted last week.

PASADENA, CAL.—Horace M. Dobbins, Pres. of the Pasadena Cycleway Association, who is at the head of a company that has been capitalized at $5,000,000 for the construction of an electric railway between Pasadena and Los Angeles, advises us that surveys have been made for this proposed line and that right-of-way is three-quarters secured. Additional right-of-way is being obtained now.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

ORANGE, MASS.—We are officially advised that bids will be received at once by the Rodney Hunt Machine Co., 70 Kerby St., Orange, for building a concrete dam at the Partridgeville mill privilege recently purchased by the company. The dam, when completed, will furnish power to generate electricity for the operation and lighting of the plant of the Rodney Hunt Machine Co., and to other concerns. Eldridge N. Harris is Pres.

HOLYOKE, MASS.—The only bid received on March 24 for installing two barometric condensers and altering the one now in use was submitted by the Deane Steam Pump Co., C. B. Moore, Mgr., 42 Battrymarch, Holyoke, at about $10,000. W. H. Snow is Mgr. Gas and Electric Light Dept.

BOSTON, MASS.—Bids are asked by Lt.-Col. Edward Burr, Corps Engrs., U. S. A., until noon, April 23, for steam boiler, pumps, water meter and parts of electric light plant.

NORWICH, CONN.—We are officially advised that the Uncas Power Co., 49 Shetucket St., Norwich, has awarded to TUCKER & VINTON, 103 Park Ave., New York, that contract to construct a dam and power plant on the Shetucket River in the town of Scotland. The dam, which will be 70 ft. thick at the bottom, will be 225 ft. long. The equipment of the power station will include three sets of duplex turbine wheels, with a capacity of 2,500 HP. The plant is expected to be completed and ready for operation by fall. The poles for the line between this city and Scotland have been erected and the wires have been strung.

NEW YORK, N. Y.—Bids were received March 30, by C. B. J. Snyder, Supt. School Bldgs., Bd. of Education, for electrical equipment for (b) Public Schools Nos. (a) 153, Boro. of Brooklyn, (b) 17, Boro. of Manhattan, and (c) 90, Boro. of Queens. T. Frederick Jackson, Inc., 592 C[illegible]bus Ave., (a) $8,344, (b) $14,075, (c) [illegible]; Commercial Construction Co., 114 [illegible] 28th St., (a) $8,873, (b) $11,4[illegible] (c) $10,396; Peet & Powers, 45 [illegible] 64th St., (a) $8,973, (c) $10,578, [illegible] & Donovan, Inc., 1123 Broadway, [illegible] $8,860, (b) $15,960, (c) $10,690; E. [illegible]uggan, 1123 Broadway, (a) $8,980, (b) [illegible]885, (c) $12,200; Frederick Pearce Co., [illegible] 14,081; Western Electric Co., 463 West [illegible] (c) $11,478.

NEW YORK, N. Y.—Bi[illegible] asked until 11 a. m., April 13, by C. B. [illegible] Snyder, Supt. School Bldgs., Bd. of Edu[illegible] for installing electric equipment in [illegible] Public School No. 17, 47th and 48th Sts., [illegible] of Seventh Ave., Boro. of Manhattan.

EAST WORCESTER, N[illegible]—The Public Service Commission, Sec[illegible]strict, has granted the petition of the [illegible] Bear Light & Power Co. to construct it[illegible] and exercise its franchises within [illegible] villages of Worcester, West Richmon[illegible] and Richmondville.

ITHACA, N. Y.—The Itha[illegible] Light Co. has let contract to DEILY [illegible]WLER, 39 Laurel St., Philadelphia, P[illegible] a 250,000-cu. ft. gas tank, which w[illegible] erected in Esty St. as soon as the [illegible] leaves the ground. The tank will be [illegible] 3 ins. in diameter, and 75 ft. in heig[illegible] The cost is estimated at $28,000.

WAYNESBORO, PA.—The [illegible]mbersburg, Greencastle & Waynesboro S[illegible] Ry. Co. has awarded contracts for th[illegible]ion of the transmission line between G[illegible]castle and Chambersburg, and for const[illegible]ng a substation at Marion to J. G. SC[illegible]FF ELECTRICAL CO., of Chambers[illegible] and the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg. Additional machi[illegible] for the power-house will be purcha[illegible] soon. J. MacWolff is Mgr.

BALTIMORE, MD.—The Crown Cork & Seal Co., bottle-cap manufacturers, Guilford Ave. and Oliver St., has awarded contract to GEORGE BUNNECKE & SONS, 305 St. Paul St., Baltimore, for erection of addition to power-house at Highlandtown. The station will have one story, 30 × 60 ft., and will be built of brick. Charles M. Anderson, 324 North Charles St., is Arch.

WASHINGTON, D. C.—We are officially advised that the following bids were received on March 25, by Elliott Woods, Supt. U. S. Capitol Bldg. and Grounds, for Schedule A, weatherproof and rubber covered wire and cable; Schedule B, conduit and fittings; Schedule C, switch, receptacles, etc.; Schedule D, bar iron and miscellaneous materials: The Safety Insulated Wire & Cable Co., 1330 New York Ave., Washington, D. C., (A) $14,063; Vermilye & Power, 17 Battery Pl., New York, (A) $14,307; Commercial Electrical Supply Co., 15th and Pine Sts., St. Louis, Mo., (A) $14,600, (B) $4,495, (C) $4,195; Western Electric Co., 463 West St., New York, (A) $14,678, (B) $3,998, (C) $3,420, $3,500; Simplex Electrical Co., 110 State St., Boston, Mass., (A) $4,521 (for rubber covered wire only); National Electrical Supply Co., 1330 New York Ave., Washington, (B) $3,857, (C) $3,014, $3,274; International Electric & Engineering Co., 148 Chambers St., New York, N. Y., (C) $3,250, $3,650; Berry & Aiken, Philadelphia, (D) $431.

Bids are asked until April 15, at the Government Printing Office, H. T. Brian, Acting Public Printer, at the office of James Wilson, Secy., Dept. of Agriculture, and at the office of Rudolph Garfield, Secy. Dept. of the Interior, for furnishing electrical supplies, etc., for the respective departments during the fiscal year ending June 30, 1909.

CLEVELAND, OHIO.—George S. Rider & Co., Consult. Engrs., have completed plans and specifications for an addition to the present power plant of the Cleveland Worsted Mills Co., Broadway. This work will consist of a boiler-house, coal bunkers, a brick chimney 225 ft. high, mechanical stokers and capacity of 5,000 HP. in water tube boilers.

WAYNE, MICH.—The Village Council has let contract to WASHTENAW LIGHT & POWER CO., of Ann Arbor, to illuminate the streets. The company will install a plant here and have it in operation by Oct. 1. R. W. Hemphill, Ypsilanti, Mich., is Gen. Mgr.

MENOMINEE, MICH.—The Menominee & Marinette Light & Traction Co. intends to develop the Chappee Rapids, Menominee River, and to erect a power plant at an estimated cost of $400,000. The Chappee Rapids will supply electrical energy for light and power purposes both at Menominee and Marinette, and eventually, it is expected, for the operation of an interurban railway it is proposed to build between Menominee and Escanaba, taking in many small towns en route. Edward Daniell, Menominee, is Mgr.

CHICAGO, ILL.—Estimates are wanted by the Pfanmueller Engineering Co., First National Bank Bldg., Chicago, for alternator and engine; 75 to 125-KW. 60-cycle 3-phase 440-volt alternator, direct connected to engine; also one 100-KW. 60-cycle 3-phase 220-volt belt-driven alternator and switchboard.

MILWAUKEE, WIS.—R. W. Hunt & Co., The Rookery, Chicago, Ill., have prepared estimates for the Board of Public Works for a municipal electric lighting plant which will cost the city between $823,492 and $1,245,449. The figures in the report were upon 2,000 and 3,00 0arc lamps, with one extra unit for commercial purposes in each instance. Separate figures are given for plants run by gas and by steam. The plant run by gas and of 3,000 lamp capacity will cost $1,245,449, while for 2,000 arc lamps the cost will be $920,867. A steam plant for 2,000 lamps will cost $823,492, and for 3,000 lamps, $1,079,607. An election will be held to vote on question this month. Charles G. Poetsch is City Engr.

JUNEAU, WIS.—Bids are asked by F. L. O'Neill, City Clerk, until 11 a. m., April 18, for the construction of a brick power-house and for furnishing a 300-gallon deep well triplex pump and a 25-HP. gasoline engine. W. G. Kirchoffer is Engr., Madison, Wis.

LOYAL, WIS.—Bids are asked by J. M. Philpott, Village Clerk, until 2 p. m., April 23, for construction of a brick power-house, a 30,000-gallon steel tank and tower and for furnishing a 85-HP. gas producer and gas engine, a 200-gallon triplex pump and a 45-KW. direct connected generator and switch board. W. G. Kirchoffer is Engr., Madison, Wis.

THIEF RIVER FALLS, MINN.—The Thief River Falls Electric Ry. Co. has decided to purchase a site for a dam at some point along the Red Lake River. It is proposed to develop the water power to furnish electricity to operate the proposed electric road.

GIRARD, KAN.—At a meeting of the City Council held March 11, a franchise was granted to Walter L. Smith of Kansas City, representing the Kansas Natural Gas Co., Farmers' Bank Bldg., Pittsburg, Pa., granting the right to install a natural gas system in Girard. It is the intention of the company, it is stated, to extend a branch gas main from the line of the Kansas Natural Gas Co., which now supplies Pittsburg. The connection will be made at a point between Cherokee and Fleming and run due north to Girard. C. McDowell is Mgr.

PINE BLUFF, ARK.—The Pine Bluff Light & Water Co. has let contracts for the erection of the power plant and reservoir which are to be parts of the new plant which the company is erecting in this city to replace the one which has proven inadequate to supply the city's demands. The SELDEN-BRECK CONSTRUCTION CO., Fullerton Bldg., St. Louis, Mo., has been awarded the contract for the power plant, and the contract for the reservoir has been let to the W. P. CARMICHAEL CO., H. M. Cryder, Mgr., Fullerton Bldg., St. Louis. B. C. Fowles, Pine Bluff, is Mgr. of the P. B. L. & W. Co.

EUREKA SPRINGS, ARK.—M. B. Baird, of Tulsa, Okla., has purchased the Blue Spring and properties surrounding the Walden Switch on the north side of the White River, and proposes to install an electric plant, which will take its power from the source of the spring. The company will be known as the Eureka-Blue Spring Water Co. and intends to establish a pleasure resort, it is stated.

COTTON PLANT, ARK.—It is the intention of the Cotton Plant Light & Power Co. to expend about $15,000 for improvements. E. P. Ford is Secy.

BARTLESVILLE, OKLA.—The Bartlesville Interurban Ry. Co., J. J. Curl, Pres., has awarded contract to the FREEBORN ENGINEERING & CONSTRUCTION CO., Heist Bldg., Kansas City, Mo., for overhead construction, tracklaying and installation of power-house machinery for railway to be built between Bartlesville and Dewey, Okla. Power-house equipment, including generators, engines, pumps and boilers will be purchased from John A Stewart Electric Co., Cincinnati, Ohio.

WAUREKA, OKLA.—The city has granted a franchise to M. Griffin O'Neil of Dallas, Tex., to install an electric light plant to cost about $10,000. Construction will be started at once.

TEXARKANA, TEX.—Charles G. Dawes, Pres. of Central Trust Co. of Illinois, 152 Monroe St., Chicago, Ill., John A. Markley, also of Chicago, and associates have awarded contract for piping for their proposed pipe line from Texarkana to Shreveport, La.; contract awarded to SOUTH CHESTER TUBE CO., of Chester, Pa., and calls for 50 miles of 8-in. pipe at $115,540, exclusive of fittings, laying and transportation. Noted on March 19.

BREMERTON, WASH.—Bids were received as follows March 28, at the Bureau of Yards and Docks, Navy Dept., Washington, for furnishing and installing two boilers, flues and stacks at the Puget Sound Navy Yard, Bremerton, Wash.: Haliadie Machinery Co., 122 King St., Seattle, Item 3, $37,400; Babcock & Wilcox Co., North American Bldg., Philadelphia, Item 1, $30,000; Item 2, $33,757, Item 3, $33,330; Risdon Iron & Locomotive Works, 289 Steuart St., San Francisco, Item 1, $41,600, Item 2, $41,600, Item 3, $40,900; Elliott Bay Iron Works, 439 New York Block, Seattle, Item 3, $38,935; Alfons Custodis Chimney Construction Co., 95 Nassau St., New York, Item 3, chimney only, $10,015, radial brick, $6,999, reinforced concrete.

ROSALIA, WASH.—The Inland Empire Electric R. R. Co. has a franchise for an electric lighting system, and expects to have the system in operation by July.

SACRAMENTO, CAL.—We are officially advised that the projected power line of the Great Western Power Co., Crocker Bldg., San Francisco, follows as closely as possible the right-of-way of the Western Pacific Ry. Co. to a point ten miles north of Sacramento, where it deflects and enters the American River bottom at a point near Perkins. After crossing the river the route lies along the public road leading in the direction of Florin, but lies between that village and Elk Grove. Throughout the whole length the line is on private property, nothing in the way of a franchise on a county road being asked. The power company has taken options for a period covering 200 days. While the power line leaves the railroad route ten miles north of town, it is never out of sight thereof. Poles will not be used. In their stead the reliance will be on masts erected 750 ft. apart and 84 ft. high. At each road crossing a net will be placed so as to intercept the wires should they be in any manner broken or disconnected from the tower supports. The line will cost completed, over $15,000 a mile. From the neighborhood of Perkins a line will be brought into Sacramento. It was the opinion of the engineers that the wires will be stretched and ready for use by fall. Brown & Wilson, 115 Broadway, New York, are interested.

PARIS, IDAHO.—Improvements are contemplated by the Bear Lake Valley Ry. Electric Co. to its plant, which will involve an expenditure of about $12,000. The company contemplates putting in a pipe line from the spring, which forms the head waters of Paris Creek, to the site of the present power house, and the erection of a new power house. The plant will have a capacity of about 1,000 HP. C. R. Slusser, Montpelier, Idaho, is Pres.

OGDEN, UTAH.—Power will be developed, it is stated, at Willard Canyon, for the purpose of operating the Ogden & Northwestern R. R. Co.'s trolley line and its extension to Brigham City, and probably part of the Ogden Rapid Transit Co.'s trolley system. The acquisition of rights to all the available water in the canyon by M. S. Browning, acting for his associates, was the first step in the consummation of the project. It is proposed to erect a power house not far from the canyon, and to extend the Hot Springs line on to Brigham City, place the entire system under electric power and operate cars between Ogden and the terminal of the road. W. J. Shealy is Gen. Mgr. of the O. & N. W. R. R. Co.

WINNIPEG, MAN.—The City Council has decided to proceed with the water-power development at Point du Bois Falls as soon as possible and the Board of Control has taken steps toward the construction of the tramway from Las du Bonnet to Pointe du Bois. Cecil B. Smith is Electrical Engr.

PRINCE ALBERT, SASK.—On March 19, in regard to the proposed power development for this city, at Steep Creek on the Saskatchewan River, it was erroneously stated that "10,000 HP. can be developed for $350,000 and 10,000 HP. for $1,000,000." The following figures, taken from the report of Charles H. Mitchell, Consult. Engr. to the city of Prince Albert, are correct: 10,000 HP. can be developed for about $1,000,000, a portion of which can be secured as an initial development, not exceeding 2,000 HP., at a cost of $350,000.

NELSON, B. C.—Cecil B. Smith, Consult. Engr., Winnipeg, writes us that the city of Nelson has a power plant now constructed on the Kootenay River at Bowington Falls, nine miles west of the city. The general construction is on a basis of four vertical units of 1,000 KW. each under 60-ft. head, but the installation to date consists of one unit of 750 KW., nominal rating, and single 3-wire aluminum circuit to Nelson. The work which Smith, Kerry & Chace, Confederation Life Bldg., Toronto, have been called upon to do is to install a second unit of 1,000 KW., also a second transmission circuit and a certain amount of reconstruction necessary for a larger station.

BRIDGES.

WILLIAMSVILLE, VT.—The contract for constructing an arch bridge 84 ft. long, with an 18-ft. roadway was awarded on March 14 by the Selectmen to CROSBY & PARKER, Brattleboro, Vt., at $5,450.

*READING, PA.—Bids are asked until 10 a. m., April 10, by A. L. Rhoads, County Controller, for constructing an 80-ft. reinforced concrete arch bridge in Washington Township, near Barto.

LONDON GROVE, PA.—N. R. Ramb, County Surv., has been ordered to prepare plans for the construction of a stone arched bridge over Clay Creek in London Grove Township.

MAUCH CHUNK, PA.—Bids are asked until 2 p. m., May 1, by the County Clerk, for repairing bridges.

JESUP, GA.—The County Commissioners of Wayne County are considering the construction of a bridge across Satilla Creek. P. R. Richardson is Chn. Comrs.

JACKSONVILLE, FLA.—Bids are asked by the Board of County Commissioners, C. Benedict, Chn., until April 8, for constructing two steel bridges complete on the Beach road over Big Pottsburg Creek and Silversmith Creek. Gail L. Barnard is County Engr.

SELMA, ALA.—The County Commissioners have ordered the construction of two steel bridges, one six miles, the other 15 miles from Selma.

MERIDIAN, MISS.—Bids are asked until 2 p. m., April 6, by W. R. Pistole, Chancery Clk., for construction of either a wooden or steel bridge over Sowashee Creek on the Meridian road.

MIDDLETOWN, OHIO.—Bids are asked until 10 a. m., April 9, by J. E. Brate, County Audr., Hamilton, Ohio, for the construction of a hoist bridge over the Miami and Erie canal at Tytus Ave., Middletown. Separate bids are also asked for the removal of the present hoist bridge and the transportation and re-erection over the canal on the Yankee road.

COLUMBUS, OHIO.—All bids opened on March 20 by the Board of County Commissioners for reflooring the Russell bridge were rejected. New bids will be asked by F. M. Sayre, County Audr.

ASHTABULA, OHIO.—The Lake Shore & Michigan Southern Ry. Co. has submitted plans to L. A. Amsden, City Engr., for the construction of an overhead bridge at Prospect St. Estimated cost, $42,000. R. R. Leffler, Cleveland, Ohio, is Engr. Bridges.

NEW PHILADELPHIA, OHIO.—Bids are asked until 1 p. m., April 13 by the Commissioners of Tuscarawas County for repairs to and construction of various bridges in the county. A. V. Donahey is County Audr.

LANCASTER, OHIO.—Bids are asked until 11 a. m., April 18 by the County Commissioners for the construction of a steel superstructure over the Hocking River, Greenfield Township. Palmer Howard is County Audr.

NOTTINGHAM, OHIO.—Beers & Doolittle, Cleveland, Ohio, submitted the lowest bid to the County Commissioners on March 14 for the construction of a concrete bridge over Euclid Creek, at $10,023.

CLEVELAND, OHIO.—Plans for the construction of the Detroit St. concrete bridge over Rocky River, have been completed by A. B. Lea, County Engr., and A. M. Feigate, Consult. Engr. The total length of the roadway is 700 ft and is 94 ft. above the water. The main span is 280 ft. in length. There will be a 40-ft. roadway and 8-ft. sidewalks on each side. The estimated cost of the bridge as planned is $266,000.

NEWARK, OHIO.—Bids are asked until 1.30 p. m., April 13 by the County Commissioners for the erection of the substructure of the Patton bridge over Lake Fork Creek, in Burlington Township. J. N. Wright is County Audr.

LAGRANGE, IND.—Bids are asked by the Commissioners of Lagrange County until 2 p. m., April 7, for the construction of seven bridges.

LEBANON, IND.—Bids are asked until 1 p. m., April 6, by the County Commissioners, for the construction or repair of 22 bridges.

SALEM, IND.—The VINCENNES BRIDGE CO., Vincennes, Ind., has been awarded the contract at $3,498 for the construction of two bridges over Brock Creek, Salem.

MILWAUKEE, WIS.—We are officially advised that the contract for the construction of the superstructure of the 27th St. viaduct was awarded on March 27 by the Board of Public Works to the MILWAUKEE BRIDGE CO., 34th St. and Fond du Lac Ave., at $215,670. Charles J. Poetsch is City Engr.

FORMAN, N. DAK.—Bids are asked until noon, April 6, by R. P. Irving, County Audr., for the construction of two steel bridges, one a 24-ft. span, the other a 32-ft. span. Bidders are required to furnish plans and specifications.

SPRINGFIELD, MO.—Harry G. Horton, City Engr., is preparing plans for the construction of bridges over the Jordan River at Main St. and Boonville St.

BUTLER, MO.—Bids are asked until April 8, by E. B. Borron, County Highway Engr., for the construction of approach spans for Drainage District No. 1 and for the construction of a steel bridge over Shaw Branch on or near the section line between Sections 7 and 8 of Township 39, Range 29.

KANSAS CITY, MO.—Bids are asked until 11 a. m., April 10, by Oscar Koehler, County Surv., at the office of the County Clerk, Court House, for constructing an 18-ft. I-beam steel bridge, a 22-ft. I-beam steel bridge, two 3-ft. stone arch culverts, a 6-ft. stone arch culvert, and an 8-ft. stone arch culvert.

CLINTON, MO.—Bids are asked until 1 p. m., April 14 by the County Commissioners, Henry County, for the construction of a 140-ft. steel span bridge on tubular piers 40 ft. high with 80 ft. of approach over Big Tebo Creek, 14 miles east of Clinton.

PORT ANGELES, WASH.—Bids are asked until 2 p. m., April 6, by N. H. Hawkins, County Audr., for the construction of a trestle bridge and approaches.

GOLDENDALE, WASH.—Bids are asked by A. N. MacLeod, County Audr., until 1 p. m., April 9, for the construction of various bridges in the county.

PASCO, WASH.—Bids are asked by the Board of County Commissioners of Franklin County until April 6, for the construction of one 50-ft. steel bridge and the necessary approaches.

SALEM, ORE.—C. F. ROYAL & SON were awarded the contract on March 18 by the Portland Ry., Light & Power Co., for the construction of a bridge over North Mill Creek on North Commercial St.

EUREKA, CAL.—Bids are asked by the Board of Supervisors of Humboldt County, until 10 a. m., April 14, for the construction of a steel highway bridge across Salt River. George W. Cousins is Clk. Bd.

TEHAMA, CAL.—Bids are asked until 10 a. m., April 7, by the Board of County Supervisors, Tehama County, for the construction of three wooden bridges on the Red Bluff and Tehama Road, about 1½ miles northwest of Tehama. H. G. Kuhn is Clk. Bd.

LANE, IDAHO.—Bids are asked until May 11 by the County Commissioners for the construction of a bridge across the Coeur d'Alene River near Lane, the span to be 140 ft., which, together with the approaches, will reach over 1,000 ft. Bids are asked on a combination steel and wood structure and a steel bridge.

KAMIAH, IDAHO.—Articles of incorporation have been filed with the County Auditor by the Kamiah Bridge Co., organized with a capital of $10,000 for the purpose of constructing a toll bridge across the Clearwater River

TWEED, ONT.—The Hungerford Township Council have decided to have constructed a steel bridge of one 50-ft. span on concrete abutments across the Clare River.

ST. JOHN, N. B.—Bids are asked by William Downie, Gen. Supt., Atlantic Division, Northern Pacific Ry. Co., until 2 p. m., April 4, for the construction of concrete piers and arches.

DRUMMOND, N. B.—Bids are asked by C. H. LaBillois, Chief Comr., Dept. Public Wks., Fredericton, N. B., until April 6 for constructing masonry substructure and approaches of the Broadway bridge.

*BRANDON, MAN.—We are officially advised that the City Council has decided to construct the reinforced concrete bridge across the Assiniboine River by day labor under the supervision of the City Engineer. The estimated cost of the complete structure is $60,000. W. H. Shillinglaw is City Engr.

*VANCOUVER, B. C.—Bids are asked until noon, May 1 (an extension of time from April 4) by the City Clerk, for the manufacture and erection of the superstructures of the new bridges over False Creek at Westminster Ave. and Granville St. Estimated weight of structural steel, about 2,800 tons.

CASCADE, B. C.—J. A. Bertois, of Cascade, will have a suspension bridge constructed across the Kettle River here.

NORTH VANCOUVER, B. C.—The contract for the construction of a steel bridge over Lynn Creek has been awarded to LANGLEY, MUSGROVE & WILLIAMS, at $43,000.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Press reports state that Wheelwright & Haven, Archs., 100 Boylston St., Boston, have been retained to prepare plans for a theater to be built on the north side of Huntington Ave., near Gainsborough St., for the Boston Opera Co.

NEW BRITAIN, CONN.—The contract for erection of a parish school for the congregation of the Sacred Heart of Jesus, which is to cost approximately $75,000, has been awarded to the B. H. HIBBARD CO., 162 Main St., New Britain. The contract was originally let to C. W. Holmes, but he was unable to complete the work.

STAMFORD, CONN.—We are advised by J. G. Houghton, First Selectman, that the contract for constructing a brick and stone school, bids for which were received on March 26, has been let to the H. WALES LINES CO., 134 State St., Meriden, Conn., at $46,400. Boring & Tilton, 32 Broadway, New York, N. Y., are Archs.

ROCHESTER, N. Y.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to AMBROSE B. STANNARD, St. James Bldg., New York, contract for the construction of an extension to the post-office at Rochester, N. Y., at $95,448; time, March 31, 1909.

NEW YORK, N. Y.—We are advised by the City & Suburban Homes Co., 281 Fourth Ave., Archs. and owners, that plans have been filed for a 6-story brick and stone tenement, to cost $100,000. The building will be 106.3 × 88.4 ft. and will be erected at 517 East 78th St.

A 6-story brick and stone apartment building will be erected at St. Nicholas Ave. and 172d St., by A. B. Kight, Arch., 1947 Broadway. It will be 94.6 × 87 × 90 ft., and will cost about $175,000.

NEW YORK, N. Y.—Neville & Bagge, Archs., 217 West 125th St., advise us that they have completed plans for a 6-story brick and stone tenement, to be erected on 110th St., near Seventh Ave. It will be 100 × 88 ft. and will cost $160,000. C. M. Silverman & Sons, owners, 3492 Broadway, are taking estimates.

NEW YORK, N. Y.—We are officially advised that Shampan & Shampan, Archs., 772 Broadway, Brooklyn, are preparing plans for three 6-story apartment and store buildings, 100 × 100 ft., at the corner of Havemeyer and Hope Sts., Brooklyn, for Leib Lurie, 46 Graham Ave. Cost, $110,000.

Plans are prepared by the same architects for seven brick, stone and terra-cotta building to be built after the same design. Five buildings will be 40 × 95 ft. and two 30 × 100 ft. The buildings will cost about $250,000 and will be owned by Hyman Halprin, Brooklyn. They will be built at Roebling and North Seventh Sts., Brooklyn. Estimates will be taken at once.

NEW YORK, N. Y.—Bids were received by C. B. J. Snyder, Supt. School Bldgs., Bd. of Education, on March 30, for installing heating and ventilating apparatus in Public Schools (a) No. 5 and (b) No. 140, Boro. of Brooklyn; and (c) in Public School No. 96, Boro. of Manhattan, and (d) No. 89, Boro. of Queens. Following are the bids: Blake & Williams, 211 West 20th St., (a) $57,628, (d) $44,786; Frank Dobson Co., 319 East 53d St., (a) $53,800, (b) $13,855, (c) $31,940, (d) $41,846; E. Rutzer Co., 127 White St., (a) $51,398, (b) $13,544, (c) $33,652, (d) $44,341; Gillis & Geoghagen, 537 West Broadway, (a) $52,290, (b) $12,495, (d) $44,650; John Hankin & Bro., 550 West 25th St., (b) $13,333, (c) $32,827; William J. Olvaney, 177 Christopher St., (b) $11,637, (c) $29,858; Harry L. Phelp, (b) $12,143; R. J. Sovereign Co., Inc., 63 Fifth Ave., (c) $33,600; Baker, Smith & Co., 83 West Houston St., (c) $37,850, (d) $43,989; James Curran Mfg. Co., 512 West 36th St., (c) $32,000, (d) $44,000; Baldwin Engineering Co., (c) $35,790; Daniel J. Rice, 5 East 42d St., (d) $45,828.

*NEW YORK, N. Y.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., May 5, for enlarging, extending and remodeling, etc., the U. S. Assay Office in New York.

NEW YORK, N. Y.—Bids are asked until 11 a. m., April 13, by C. B. J. Snyder, Supt. School Bldgs., Bd. of Education, for installing heating and ventilating apparatus in Public Schools Nos. 24 and 154 (new), Boro. of Brooklyn, and 28, Boro. of Richmond. Also for construction of a temporary school building at Public School No. 81, Cypress Ave., Ralph and Bleecker Sts., Ridgewood Heights, Boro. of Queens.

FORT HANCOCK (Sandy Hook post-office), N. J.—We are officially advised that the following bids were received on March 19 by M. N. Falls, Constr. Q. M., for constructing plumbing, heating and wiring one double or two single sets of barracks at this post:

Double barrack.—(a) with stone foundation, (b) with brick foundation, (c) with concrete walls placed above the grade, (d) additional sum for concrete instead of wood in porch: F. T. Nesbit & Co., Inc., 116 Nassau St., New York, (a) $85,900, (b) $87,728, (c) $87,764, (d) $950; Nicholas H. Trapp, 17 Thames St., New York, (a) $70,739, (b) $71,790, (c) $69,950, (d) $850; Kelly & Kelley, 45 East 42d St., New York, (a) $82,541, (b) $80,653, (c) $78,946, (d) $602; Daniel J. Ryan, 723 Third Ave., Brooklyn, N. Y., (a) $78,800 (b) $78,600, (c) $76,800 (d) $750; John Milnes Co., Port Richmond, N. Y., (a) $73,500, (b) $71,300, (c) $70,500, (d) $550; Blackstaff Eng. Co., Philadelphia, Pa., (a) $90,800; Stevenson, Raidiris Co., 261 Broadway, New York, (a) $78,500, (b) $70,900, (c) $70,900, (d) $80,000 (alternative); William H. Luth Co., 640 Sterling Pl., Brooklyn, N. Y., (a) $76,000, (b) $75,100, (c) $75,100, (d) $464; R. P. & Edward O. Hamilton, Fort Hamilton, N. Y., (a) $68,400, (b) $67,010, (c) $66,600, (d) $1,000; Joseph Finn

& Co., Long Branch, N. J., (a) $101,000; Jensen & McCardle, Long Branch, N. J., (a) $83,100, (b) $81,600, (c) $81,600 (d) $1,200.

Single barracks.—(a) number of buildings, (b) bid per plans and specifications, (c) alternative: F. T. Nesbit & Co., Inc., (a) 1, (b) $54,000, (c) add $350; Nicholas H. Trapp, (a) 2, (b) $101,690, (c) add $1,200; Kelly & Kelley, Inc., (a) 2, (b) $101,690, (c) add $452; Daniel J. Ryan, (a) 1, (b) $47,000, (c) add $200; John Milnes Co., (a) 2, (b) $97,450, (c) add $700; Blackstaff Engineering Co., (a) 2, (b) $124,064; Stevenson, Raldiris Co., (a) 1, (b) $70,580, (c) $70,900; William H. Luth Co., (a) 1, (b) $44,050, (c) add $157; R. P. & Edward O. Hamilton, (a) 1, (b) $47,500, (c) add $690; Joseph Finn & Co., (a) 1, (b) $63,501; Jensen & McCardle, (a) 1, (b) $50,700, (c) add $1,100.

Unit prices.—(a) excavation per cu. yd., (b) concrete per cu. yd., (c) rubble stone per cu. yd., (d) brick per cu. ft., (e) stone ashlar per sq. ft.: F. T. Nesbit & Co., Inc., (a) 50 cts., (b) $9.45, (c) $5.40, (d) 42 cts., (e) $2.50; Nicholas H. Trapp, (a) 45 cts., (b) $8.50, (c) $7.25 (d) 45 cts., (e) 25 cts.; Daniel J. Ryan, (a) 75 cts., (b) footings, $7.00, walls, $9.00, (c) $7.00, (d) 52 cts., (e) $2.25; John Milnes Co., (a) 40 cts., (b) footings, $8.00, walls, $10.00, (c) $8.00, (d) 50 cts., (e) $1.25; Stevenson, Raldiris & Co., (a) 30 cts., (b) $7.50, (c) $4.75, (d) 40 cts., (e) $1; William H. Luth Co., (a) 40 cts., (b) $8.10, (c) $6.00, (d) 56 cts., (e) 70 cts.; R. P. & Edward O. Hamilton, (a) 40 cts., (b) $7.50, (c) $8.00, (d) 45 cts., (e) $1; Jensen & McCardle, (a) 45 cts., (b) $9.00, (c) $[illegible], (d) 40 cts., (e) 80 cts.

Plumbing.—(a) double barrack, (b) single barracks, one building, (c) single barracks, two buildings: Kelly & Kelley, Inc., New York, (a) $9,000, (c) $12,220, (will not accept unless awarded general contract); George H. Drake, 220 Lexington Ave., Buffalo, N. Y., (a) $8,447, (b) $4,595; Blackstaff Engineering Co., Philadelphia, Pa., (a) $9,650, (b) $4,587; Nicholas Plumbing & Heating Co., Columbus, Ohio, (a) $8,685, (c) $8,797; David Buist, Bernardsville, N. J., (a) $10,778, (c) $9,974; James B. Gill & Co., Newark, N. J., (a) $7,294.42, (b) $3,552; Stevenson, Raldiris & Co., (a) $15,000, (b) $7,763; Jacob Mannecschmidt, Brooklyn, N. Y., (a) $8,990, (c) $9,350; Hines & Hammer, Long Branch, N. J., (a) $9,796, (b) $4,907, (c) $9,350; Joseph Finn & Co., Long Branch, N. J., (a) $10,-296, (b) $5,200.

Heating.—(a) double barrack, (b) single barracks, one building, (c) single barracks, two buildings: Kelly & Kelley, Inc., (a) $5,628, (c) $7,228; Barenklau & Winters, Brooklyn, N. Y., (a) $6,600, (c) $4,294; George H. Drake, (a) $6,116, (b) $3,730; Blackstaff Engineering Co., (a) $5,800, (b) $3,875; Nicholas Plumbing & Heating Co., (a) $5,596, (c) $8,797; Earl & Cook Co., 150 Nassau St., New York, (a) $5,605, (b) $4,021; Zimmermann Plumbing & Heating Co., 150 Newark, N. J., (a) $5,628, (b) $3,614; Stevenson, Raldiris Co., (a) $6,500, (b) $4,128; Joseph Finn & Co., (a) $10,296, (b) $3,900.

Plumbing and Heating.—George H. Drake, 220 Lexington Ave., Buffalo, double barrack, $13,981; single barracks, two buildings, $15,-985.

Wiring and Fixtures.—(a1) wiring double barracks, (a2) fixtures for same; (b1) wiring single barrack, (b2) fixtures for same: LeBaron B. Johnson, 136 Liberty St., New York, (a1) $1,461, (a2) $765, (b1) $1,390 (two buildings), (b2) $938 (two buildings); Kelly & Kelley, (a1) $1,838, (a2) $1,100, (b1) $1,324 (two buildings), (b2) $1,500 (two buildings); McCay Engineering Co., (a1) $1,413.50, (a2) $617.34, (b1) $1,056 (two buildings), (b2) $610 (two buildings); McLeod, Ward & Co., 27 Thames St., New York, (a2) $725, (b2) $325 (one building); Blackstaff Engineering Co., (a1) $1,500, (a2) $650, (b1) $900 (one building), (b2) $500 (one building); Elmer C. Lowell, Portland, Me., (a1) $1,364, (a2) $574; Stevenson, Raldiris & Co., (a1) $9,000, (a2) $5,000, (b1) $6,900 (one building), (b2) $500 (one building); Joseph Finn & Co., (a1) $1,500, (a2) $526, (b1) $975 (one building), (b2) $300 (one building); Roth & Jensen, Long Branch, N. J., (a1) $1,458, (b1) $1,530 (two buildings).

Wiring and Fixtures complete.—(a) double barrack, (b) single barracks. McCay Engineering Co., (a) $2,030.84, (b) $1,666.86 (two buildings); Pulis & Trompen, Ramsey, N. J., (a) $2,325.16, (b) $1,304.64 (one building).

Remarks by bidders, affecting their proposals. Kelly & Kelley: Will not accept plumbing, heating, electric wiring or fixtures unless awarded general contract. John Milnes & Co., single barracks: If lattice as shown but not mentioned is omitted, deduct $175 each building. If lattice is used as shown on plans and ashlar is omitted under front and rear porches, also in areaway, with exception of checks of area steps, deduct each building, $550. Earl & Cook Co., heating: If asbestos air cell sectional covering is used deduct from amounts of bid as follows: Double building, $116; single buildings, $160. Nicholas Plumbing & Heating Co.: Deduct $200 if air cell covering is used. All sewers eight feet from building, 50 cts. extra per foot; all water service, eight feet from building, 30 cts. per foot extra. Elmer C. Lowell: Will not accept fixtures without wiring. Zimmerman Plumbing & Heating Co.: If air cell covering is used, prices be as follows: Double building, $5,603.88; single building, $3,590.62. R. P. & Edward C. Hamilton: Sub-soil grading and stone filling not included.

NEWARK, N. J.—Ketchell & O'Rourke, Archs., Scheurer Bldg., Newark, advise us the contract for constructing a 3-story school building for the parish of St. Columbia has been let to JOHN CALLAN, 70 South Eleventh St., Newark. The building will be 217 x 100 ft., of brick and stone construction, and will cost $70,000.

MILLTOWN, N. J.—W. A. L'HOMMEDIEU & CO., 1 Madison Ave., New York, advise us that they have been awarded the contract for a lodge and club house for the Wickatunk Lodge, No. 135, Improved Order of Red Men, at Milltown. Warren H. Conover is architect, 232 West 40th St., New York.

*PHILADELPHIA, PA.—Bids are asked until noon, April 21, by the Pennsylvania Commission to erect a State Hospital for the Insane, 1435 Chestnut St., Philadelphia, for construction of new and for finishing present buildings pertaining to the Homeopathic Hospital for the Insane, in Hanover Township, Lehigh County, Pa. W. T. Marshall is Chn.; Franklin T. Cheney, Clerk.

PHILADELPHIA, PA.—The contract to erect a 3-story stone apartment house on Wayne Ave. and Johnson St. for G. Wallace Simpson has been awarded to ROBERT KILLOUGH, Chelten Ave. and 21st St. The cost is to be about $200,000. Watson & Huckel, 1211 Walnut St., are Archs.

Dr. Samuel G. Dixon, 1900 Race St., has let to FRED A. HAVENS & CO., Perry Bldg., the contract to erect five additional buildings for the State Sanitarium for Poor Consumptives at Mont Alto. The buildings to be erected are a dining hall, a laundry building and three bathhouses. The successful bid was $54,277. Other bids were as follows: D. W. Hess's Sons, $83,286; Charles W. Denny, $58,587; Lynch Brothers, $58,-330; Frank W. Allison & Co., $58,095; Herbert F. Havens, $57,600; Steinbach, Billmeyer & Co., $55,400; J. N. Bastrass Co., $54,780.

WILKES-BARRE, PA.—Welsh & Sturdevant, Archs., 17 West Market St., Wilkes-Barre, have been engaged to prepare plans for a 9-story apartment house, 150 x 50 ft., to be built at the corner of North River and Union Sts., on the site at present occupied by the Ingham Block. Foundation will be of concrete and steel, with steel girders and concrete for the superstructure. Cost, about $200,000.

CONNELLSVILLE, PA.—Bids are asked until April 7 by McCullom & Dowler, Archs., 347 Fourth Ave., Pittsburg, Pa., for constructing an 8-story bank building for the Second National Bank, Connellsville. Estimated cost, $300,000. Noted on March 12.

BALTIMORE, MD.—William H. Graffin, 309 Vickers Bldg., and George F. Sloan, 1103 St. Paul St., are considering erection of an 8-story apartment house, 60 x 140 ft., at Charles and Franklin Sts. Cost, about $200,000.

WASHINGTON, D. C.—Bids are asked by Bernard R. Green, Supt. of Construction, National Museum, Library of Congress, until 2 p. m., April 16, for erecting in place seven electric elevators.

Bids were received as follows March 26, at the office of the Commissioners of the District of Columbia, for the construction of a 16-room school building: George A. Fuller Co., Munsey Bldg., Washington, D. C., $112,900; Burgess & Parsons, Washington, D. C., $108,000; Pavarini & Wyne, $108,-400; Milton C. Davis, Baltimore, $109,449; R. T. Humphrey, Washington, $108,900; W. O. Weaver & Sons, Harrisburg, Pa., $124,-640; Thomas H. Melton, 621 F St., N. W., Washington, $121,000; Charles A. Langley, Washington, $116,353; James M. Dunn, Washington, $111,789.

*FORT MONROE, VA.—Bids are asked until 10 a. m., April 30, by Capt. Ernest R. Tilton, Constr. Q. M., for construction of one Officers' Artillery School and one Enlisted Men's School buildings, including plumbing, heating, electric wiring and fixtures, and electric elevator.

BLUEFIELD, W. VA.—The Local Board of Education has commissioned James P. Chaplin, Arch., New Martinsburg, W. Va., to prepare plans for a school building to be erected this summer at a cost of $100,000.

CHARLOTTE, N. C.—The Southern Manufacturers' Club contemplates erecting a clubhouse, it is stated, to cost between $75,000 and $100,000.

AUGUSTA, GA.—L. F. Goodrich, Arch., 115 Eighth St., Augusta, is preparing plans for the proposed 2-story city hall. Estimated cost, $200,000. W. M. Dunbar is Mayor.

UNIVERSITY, ALA.—John W. Abercrombie, Pres. University of Alabama, advises us that the contract for the erection of two buildings at the University has been awarded to the B. C. BYNUM CONSTRUCTION CO., of Birmingham, Ala.

BIRMINGHAM, ALA.—W. H. Woodward, of Birmingham, has awarded contract to JOHN GRIFFITH & SON, Chicago, Ill., for erection of 16-story steel frame office building adjoining 16-story Brown-Marx Building, to which new structure will be joined. It is expected that site will be cleared within 30 days, construction begun within 60 days and building completed about March 1, 1909. Estimated cost, $600,000.

MEMPHIS, TENN.—It is stated that the Baptist Memorial Trustees will erect a hospital, to cost about $250,000. Rev. W. T. Lowrey is Pres.

MEMPHIS, TENN.—The Bry Block Mercantile Co. has awarded contract to GRAY CONSTRUCTION CO., St. Louis, Mo., for remodeling department store building. Shaw & Pfeil, Tennessee Trust Bldgs., Memphis, are Archs. The building will be constructed of reinforced concrete, 75 x 106 ft. Cost, $100,000.

YOUNGSTOWN, OHIO.—CHARLES CONNELL, of this city, has been awarded the contract for the construction of the Andrews Block, to be built at East Federal and North Watt Sts. at a cost of about $100,000. The building will be of reinforced concrete and will be faced with white enameled brick and glazed white terra cotta.

YOUNGSTOWN, OHIO.—Albert Kahn, Arch., Union Trust Bldg., Detroit, Mich., has completed plans for a banking and office building to be erected here this year for the First National Bank. The building will be erected on West Federal St., above the Diamond, and will cost about $100,000. It will be of brick, stone, terra cotta and reinforced concrete, and will have central power plant, elevators, steam heating system, etc. The architect will be ready for bids immediately.

Thayer & Thayer, Lawrence Savings and Trust Bldg., New Castle, Pa., have been selected as the architects to prepare final plans for the Masonic Temple to be erected at once in this city, at a cost of $100,000. The building will be four stories in height, of brick, stone and steel construction, and will cover a ground plan 64 x 120 ft. The structure will have systems of fan ventilation, plumbing and heating, two elevators, marble interior decorations, etc. The architects will prepare the plans, take bids and award all contracts as soon as possible.

CINCINNATI, OHIO.—Bids are asked until noon, April 21, by Robert H. West, Chn. Bldg. Com., Bd. of Trustees of the Public Library of Cincinnati, for the erection of a Carnegie branch library building at the corner of Warsaw and Purcell Aves., Price Hill, Cincinnati, according to the plans and specifications as prepared by Garber & Woodward, Archs., Neave Bldg., Cincinnati.

Work on the new Highland School, Eastern Ave., near Lewis St., will be started soon. Bids will be taken by the architects, Tietig & Lee, Commercial Tribune Bldg. The building, classic in style and Greek in detail, will cost about $115,000.

MARION, IND.—James Knox Taylor, Superv Arch., Treasury Dept., Washington, D. C., has awarded to CHARLES W. GINDELE CO., 3333 La Salle St., Chicago, contract for the construction, complete, of the post-office building at Marion, Ind., at $89,075; Sept. 1, 1909.

INDIANAPOLIS, IND.—The Trustees of the Y. M. C. A. will ask for bids in a few days for the construction of a building at the corner of Illinois and New York Sts. Estimated cost, $250,000.

ANN ARBOR, MICH.—We are officially advised that plans are being prepared by Smith Hinchman & Grylls, Washington Arcade, Detroit, Mich., for a chemical laboratory for the University of Michigan, James B. Angell, Pres. Estimated cost, $275,000.

CHICAGO, ILL.—A 10-story building is to be erected at 291 and 293 Fifth Ave., by Arthur Dixon for Kling Bros., 282 Fifth Ave., Chicago. The structure has been designed by Nimmons & Fellows, Archs., Marquette Bldg. It will be built of reinforced concrete and will cost $200,000. The front will be of paving brick, iron and plate glass.

MILWAUKEE, WIS.—Bids probably will be called for in about three weeks for erection of a Y. M. C. A. building to cost about $200,000, from plans of Greenhouts & Guthrie, 102 Wisconsin St.

DES MOINES, IOWA.—An addition of $40,459 has been made to the contract of PAUL REISEN'S SONS CO. for enlargement of the Des Moines public building now under construction.

IOWA CITY, IOWA.—Proudfoot & Bird, Archs., Crocker Bldg., Des Moines, advise us that plans are being prepared for a Law Building for the State University at Iowa City. The building will be 60 x 130 ft. and will have three stories and basement. It will cost $125,000. Bids will be received in June or July.

ST. PAUL, MINN.—The Evangelical Association of Minnesota proposes to erect a pressed brick and cut stone fireproof hospital in either St. Paul or Minneapolis. Rev. C. F. Kachel, Pastor of the Pine Street Church, St. Paul, Minn., is Secy. of the association. Cost, $100,000.

ST. PAUL, MINN.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., May 5, for constructing a tower on the U. S. post-office, court-house and custom-house, St. Paul. Cost, $125,000.

The State Board of Control, P. M. Ringdahl, Chn., has extended the time for closing of bids for the construction of the new wing, warehouse and water tower at the State Prison to April 18. Cost, $250,000.

LA MOURE, N. DAK.—The contract for the foundation for the 2-story cut stone, fireproof court-house to be erected here has been let by the Board of County Commissioners, E. W. Field, County Audr., to THOMAS POWERS, of Fargo, N. Dak. Constracts for the superstructure, heating, plumbing, fireproofing and electric wiring will not be let until the fall. Buechner & Orth are Archs., Manhattan Bldg., St. Paul, Minn. Cost, 75,000. Noted on Feb. 13.

ST. LOUIS, MO.—Plans are being prepared by Milligan & Wray, Archs., Chemical Bldg., for a 6-story brick and stone mercantile building, 60 x 70 ft., to be erected on Eighth St., between Pine and Olive Sts., for the Wall Realty Co. T. P. Plumridge, Secy., 211 North Seventh St. Cost about $100,000.

It is stated that Paul Jones & Co., 708 Locust St., has had plans prepared for an apartment house to contain twelve 6-room apartments in three separate buildings. Renaissance style of architecture will be followed. Cost, $100,000.

SEATTLE, WASH.—The Sisters of Providence will erect a $1,000,000 hospital at 18th Ave. and Jefferson St. Building operations will begin at once and the specifications are being completed by Somervell & Cote, Penney Bldg., Seattle.

SEATTLE, WASH.—We are officially advised that the general contract for constructing a 7-story office building for the Metropolitan Building Co., P.-I. Bldg., Seattle, has been let to the STONE & WEBSTER ENGINEERING CORPORATION, 147 Milk St., Boston, Mass. The building will be built of brick, stone and terra-cotta, will be 100 x 100 ft., and will cost about $350,-000. It will be erected at Fourth Ave and Union St.

TACOMA, WASH.—HURLEY-MASON & CO., general contractors of Tacoma and Portland, have the entire contract for the construction of a $250,000 apartment. Russell & Babcock, Provident Bldg., Tacoma, are Archs. It will have six stories, of reinforced concrete construction, cement faced, with three elevators, steam heat and electric light.

*EUGENE, ORE.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., May 9, for complete construction of U. S. post-office at Eugene.

SACRAMENTO, CAL.—R. A. Herold, Arch., Bryte Bldg., Sacramento, completed the preliminary plans for the proposed city hall, and is preparing the working plans. The building will be of a class, design, with a central tower and tower. It will be reinforced concrete and will be fireproof.

SAN FRANCISCO, CAL.—Plans have been prepared by J. Cather Newsom, Delbert Block, city, for an apartment house. The structure will be known as the Tennyson and will be erected on the north side of Bush St. west of Powell, at a cost of $200,000. It is to be a class C building, seven stories in height. The building will be finished outside with excavation terra cotta. The contract for excavation has been let to the HEALY-TIBBITTS CONSTRUCTION CO., 268 Market St., and the concrete work will be done by W. W. WESTPHAL. The other contracts will be let at once.

An 8-story Class A building is to be built at the corner of Sansome and Halleck Sts., opposite the Bank of California, by Jacob Stern of Levi Strauss & Co., Sixth and South Sts. The investment will total nearly $500,000. The front wall will be of molded brick and terra cotta, the floors of reinforced concrete and the windows of heavy wired plate glass.

SAN FRANCISCO, CAL.—We are officially advised that John B. Rogers, Ch. Engr., Ocean Shore Ry. Co., San Francisco, has prepared plans for a proposed union depot to be built at the junction of Market St. and Van Ness Ave. The station and terminal tracks will occupy the entire block bounded by Market, Mission, Eleventh and Twelfth Sts. The plans call for an 11-story Class A building, with a frontage of 550 ft. on Market St. and wings fronting 550 ft. on both Eleventh and Twelfth Sts. The central court or alcove of the station will accommodate 16 terminal tracks and a loop line track for suburban electric lines entering the terminal. The main waiting rooms and tracks will be elevated nine feet above the level of Market St. and the loop line tracks will descend on a 4% grade after crossing Mission St. to a lower platform and waiting rooms nine feet or more below the grade of Market St. The warehouse contemplated by Mr. Rogers in his general plan will occupy the entire Eleventh and Twelfth Sts. frontages from Mission to Harrison Sts., with elevated commercial and storage tracks in the rear and spur tracks entering the second floors of all the warehouses. There will be six 6-story reinforced concrete warehouses having a capacity of nearly 70 acres of floor space. These buildings will be fireproof, with steel shutters, elevators and independent lighting and power plants. The Ocean Shore Ry. is now in course of construction between this city and Santa Cruz.

SAN FRANCISCO, CAL.—Howells & Stokes, Archs., 100 William St., New York, N. Y., advise us that contracts for constructing an 11-story hotel, 66 x 80 ft. at Pine and Sansome Sts., San Francisco, for the Royal Insurance Co., has been let to THOMPSON-STARRETT CO., 49 Wall St., New York. The building will be constructed of marble to the third floor, red brick and terra cotta. The design is similar to that of the structure owned by the Royal Insurance Co. at 84 William St., New York. The contract for structural steel has been sublet to the AMERICAN BRIDGE CO., 42 Broadway, New York. Other contracts are being let by the general contractors. Estimated cost, $500,000.

LOS ANGELES, CAL.—Bids were received as follows March 30 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for installing elevators in the post-office building at Los Angeles, Cal.: Otis Elevator Co., 17 Battery Pl., New York, $14,955, Aug. 16, 1909; Llewellyn Iron Works, Los Angeles, Cal., $18,525, June 1, 1909; Brodessser Elevator Mfg. Co., Milwaukee, Wis., $36,210, Sept. 1, 1908.

*WHIPPLE BARRACKS (Prescott post-office), ARIZ.—Bids are asked by Capt. Charles C. Walcutt, Jr., Acting Q. M., until 11 a. m., April 21, for constructing, plumbing, hot water heating and electric wiring of a hospital at Whipple Barracks, Ariz.

TORONTO, ONT.—It is stated that the Board of Education has voted to enlarge the following schools: Leslie St., Morse St., Queen Alexandra, Cottingham St. (new building), Kent St., Parkdale, Fern Ave., Perth Ave., Howard, Girls' Home, Seaton St., and to reconstruct heating and ventilation plant. The total cost will be $286,500. W. A. Littlejohn is City Clerk.

BRANDON, MAN.—M. H. McLeod, Gen. Mgr. of the Canadian Northern Ry. Co., Winnipeg, Man., announces that the company will build a depot here at once.

WINNIPEG, MAN.—H. C. Bristow, Arch., Bank of Toronto Bldg., will call for bids at once for the erection of the $150,000 theater building to be erected here by the Winnipeg Theater Co. Seating capacity, about 1,550. Cost, $150,000.

Bids are asked until April 15 by M. H. McLeod, Gen. Mgr. C. N. Ry. Co., Winnipeg, for the construction of a union depot, hotel and terminal shops for the Canadian Northern and Grand Trunk Pacific Railways. Estimated cost, $3,250,000.

WINNIPEG, MAN.—The Winnipeg School Board has voted $600,000 for new buildings and additions to the schools to be built this year. D. A. Ross is Chn. of Board.

REGINA, SASK.—The School Board has decided to erect a high school at a cost of $120,000. J. Kelso Hunter is interested.

VICTORA, B. C.—The Provincial Government will call for bids at once for the erection of a normal school to cost $80,000. Alexander Robinson is Supt. of Education.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

*SPRINGFIELD, MASS.—We are officially advised that the following bids were received on March 25 by the Board of Water Commissioners for the construction of a sedimentation basin, six covered masonry filters, buildings and appurtenances: (A) without filter gravel and 15,000 cu. yds. filter sand (B) including filter gravel and sand, (C) without filter sand: CHARLES R. GOW CO., 70 Milk St., Boston, Mass., (A) $181,525; (B) $201,525 (awarded contract); Coleman Bros., 15 Court Sq., Boston, (A) $186,341, (B) $213,341; Hugh Nawn Contracting Co., 82 Savin St., Boston, (A) $36,200, (B) $[illegible],850; Fred T. Ley & Co., Inc., Springfield, (A) $211,023, (C) $216,023; Pierson Engineering & Construction Co., Bristol, Conn., and Sperry & Sellers Co., New Haven, Conn., (A) $212,215; The G. H. Fath & Son Construction Co., Cleveland, Ohio, (A) $211,167; Newell & Snowling Construction Co., Uxbridge, Mass., (A) $220,-644, (B) $247,[illegible]4; Long, Little & Co., Leominster, Mass., (A) $222,136, (B) $249,686; T. Stewart Son Co., Newton, Mass., (A) $224,-122; Loring N. Farnum Co., 405 Exchange Bldg., Boston, Mass., (A) $224,361; Beckwith & Moynihan, Herkimer, N. Y., (A) $231,995, (B) $264,995; Charles N. Taylor, Wellesley, Mass., (A) $243,204; John Donohue, Springfield, (A) $250,590; Bruno & Petitti, Boston, Mass., (A) $253,742, (B) $289,742; Holbrook, Cabot & Rollins Corporation, 6 Beacon St., Boston, (A) $255,080, (B) $289,280; The New York Continental Jewell Filtration Co., 15 Broad St., New York, (A) $257,602, (B) $293,752; Spuyten Duyvil Construction Co., New York, (A) $267,737. E. E. Lochridge is Ch. Engr. Bd. Itemized prices are given this week under Contract Prices.

*HOLYOKE, MASS.—Specifications are on file at the office of Engineering News, New York, for cast-iron pipe and special castings. Bids are asked until April 10.

PITTSFIELD, MASS.—The city has awarded the contract to the AMBURSEN HYDRAULIC CONSTRUCTION CO., Boston, Mass., for the construction of a reservoir dam 30 ft. high and 275 ft. long on gravel foundations.

*WELLESLEY, MASS.—The contract for furnishing pipe has been awarded by the city to CHARLES MILLAR & SON CO., at $10,700; for hydrants, to the CHAPMAN VALVE MFG. CO., and for gate-valves, to the LUDLOW VALVE MFG. CO. C. W. Taylor is Contracting Engr.

HUDSON, MASS.—The Water Commissioners on March 18 awarded the contract for installing 1,000 meters to TOWER BROS., at 89 9/10 cts. each.

ROCHESTER, N. Y.—We are officially advised that the contract for furnishing from 3,000 to 6,000 Lambert meters was awarded on March 25 by the Board of Contract and Supply to the THOMSON METER CO., 79 Washington St., Brooklyn, N. Y.

*WHITE PLAINS, N. Y.—Specifications are on file at the office of Engineering News, New York, for installing a 2,000,000-gallon, triple-expansion, direct-acting, condensing pumping engine, to be erected on foundation in pumping station, Orchard St. Bids are asked until April 17.

FARMINGDALE (L. I.), N. Y.—The citizens on March 17 voted in favor of issuing $30,000 of water-works bonds.

FREEPORT (L. I.), N. Y.—The citizens voted on March 17 in favor of expending $4,000 to extend the water system.

HEUVELTON, N. Y.—C. O. McComb, University Bldg., Syracuse, is preparing plans for water-works. Estimated cost, about $15,-000. A. Thornton is Chn. Water Com.

NEW YORK, N. Y.—Bids are asked until 11 a. m., April 13, by C. B. J. Snyder, Supt. of School Bldgs., for installing a drain at Public School No. 41, on Olinville Ave., Boro. of the Bronx.

*ROME, N. Y.—The lowest bid for the construction of the dam, reservoir, gate-house, tunnel and aqueduct for the Fish Creek water supply for the city was submitted on March 26 by the Carey Construction Co., Rome, at $214,618.

MENDHAM, N. J.—We are officially advised that the borough on March 24 awarded the contract to FREDERIC W. SMITH, Morristown, N. J., for constructing water-works. Leo Robinson is Boro. Clk.

READING, PA.—The following contracts for water-works material were awarded on March 24 by the Board of Water Commissioners: For cast-iron pipes and specials for city work, DRUMMOND IRON WORKS, $9,826 (awarded contract); United States Cast Iron Pipe & Foundry Co., 71 Broadway, New York, $9,936; Donaldson Iron Co., $9,830; R. D. Wood & Co., 400 Chestnut St., Philadelphia, Pa., $10,147. For cast-iron pipes and specials to be used in construction of pumping mains, UNITED STATES CAST IRON PIPE & FOUNDRY CO., $38,471 (awarded contract); R. D. Wood & Co., $39,155; Drummond Iron Works, $40,805. For gate boxes, 50,000 lbs., DRUMMOND IRON WORKS, at $2.48 per 100 lbs. For laying water-pipe and appurtenances, JOSEPH C. MARTIN, Reading, at $3,167. J. Burns is Secy. Bd.

NEW CUMBERLAND, PA.—The Riverton Consolidated Water Co. will have a reservoir erected near New Cumberland in order to supply a number of towns in the upper end of the county. Capacity, 50,000,000 gallons.

*PHILADELPHIA, PA.—We are officially advised that DRAVO, DOYLE & CO., Arcade Bldg., Philadelphia, has been awarded the contract by the city for two centrifugal pumping engines of 5,000,000-gallons daily capacity, driven by steam turbines, for the Torresdale filter plant, at $6,810. George R. Stearns is Dir. Pub. Wks. List of bidders noted last week.

*WILMINGTON, DEL.—Bids are asked until 1.30 p. m., May 4, by the Water Department for the sale by said department of four horizontal pumping engines of the following capacities: One Wetherill compound Corliss crank and fly-wheel pumping engine, 10,000,000 gallons, head 145 ft., one Worthington duplex compound pumping engine, 7,000,000 gallons, head 145 ft.; one Snow compound pumping engine, 3,000,000 gallons, head 200 ft.; one Remington compound pumping engine, 3,000,000 gallons, head 120 ft.; also auxiliary pumps, one air compressor and two 100-HP. B. & W. boilers. Theodore A. Leisen is Ch. Engr. Dept.

RICHMOND, VA.—The Southside Water & Sewerage Co. has been incorporated with $25,000 capital stock to establish sewerage system and water-works in Chesterfield County. Joseph Bryan is Pres.

HIGH POINT, N. C.—The city will spend $60,000 for the construction of new sewer lines, extension and improving water system and paving streets. Will D. Alexander is Supt. Water and Public Works Dept.

MACON, GA.—The Macon Gas Light & Water Co. have determined to cleanse the Tufts Springs and make repairs on the pumping station so as to procure 1,500,000 gallons a day.

FORT DADE (Palmetto post-office), FLA.—Bids are asked until 8 p. m., April 16, by the Constructing Quarter-Master for constructing six surface wells.

SMITH'S GROVE, KY.—H. B. Thomas, Smith's Grove, advises us that he is open for bids for the construction of water-works at Horse Cave, Ky., the plant to consist of one 50,000-gallon steel tank, 8,000 ft. of 6-in. cast iron pipe, 5,000 ft. of 4-in. cast iron pipe, and from 100 to 150 meters with fixtures. Contract will be let within 60 days.

*VERSAILLES, KY.—Bids are asked until April 20 by the Mayor and Council for the construction of a complete system of water-works. Drake C. Naive is Clk. Council. The Holmboe Co., Lincoln Bank Bldg., Louisville, Ky., are Engrs.-in-Charge.

ZANESVILLE, OHIO.—The Board of Public Service has decided to remove the 3-in. water main on Convers Ave., from Findley to Zane Aves. and to substitute a 6-in. main. H. H. Kennedy is City Audr.

COLLINWOOD, OHIO.—The Council has passed an ordinance providing for an issue of $350,000 of bonds for improving the water system.

CINCINNATI, OHIO.—Bids are asked until noon, April 21, by the Commissioners of Water-Works, for laying cast-iron pipes and special castings and valves in various streets. Elmer G. Prior is Clk. Comrs.

TOLEDO, OHIO.—Bids are asked until April 22 by the Board of Public Service for furnishing 30 and 42-in. c.-i. pipe and specials and five flanged valves for use at high service pumping station.

YOUNGSTOWN, OHIO.—Bids are asked by the Board of Public Service until noon, April 6, for furnishing 500 tons or less of cast-iron water pipe and 15 tons or less of special castings, 60 or less fire hydrants, 1,200 or less extension curb boxes, 130 or less gate valves, 1,200 or less corporation cocks, and 150 or less screw valves. W. M. McMillin is Clk. Bd.

JOLIET, ILL.—Bids are asked by the Board of Local Improvements until 10 a. m., April 6, for constructing water mains in Meeker Ave. and Collins St. William S. Welch is Clk. Bd.

JOLIET, ILL.—The Board of Local Improvements will have a water main constructed in Division St. at an estimated cost of $4,000. Hubert A. Stevens is City Engr.

CENTRALIA, ILL.—The Council has decided to expend about $20,000 for the improvement of the water-works.

HIGHLAND CENTER, WIS.—Bids are asked by Reuben Sutton, City Clk., until 7 p. m., April 15, for drilling a 12-in. well, 700 ft. deep. W. G. Kirchoffer, Madison, Wis., is Engr.

JUNEAU, WIS.—See under Light and Power Plants.

LOYAL, WIS.—See under Light and Power Plants.

STILLWATER, MINN.—Bids are asked by the State Board of Control, State Capitol, St. Paul, until noon, April 18, for the erection of a water tower at the new state prison, Stillwater.

FORT D. A. RUSSELL, WYO.—Bids are asked by Capt. V. K. Hart, Acting Q. M., Cheyenne, Wyo., until April 18, for an extension of the water distributing system at Fort D. A. Russell.

FORT D. A. RUSSELL, WYO.—See under Sewerage.

PINE BLUFF, ARK.—The WILLIAM P. CARMICHAEL CO., Fullerton Bldg., St. Louis, Mo., has been awarded the contract for constructing a reinforced concrete reservoir in Pine Bluff for the Equitable Securities Co., New York. Ford, Bacon & Davis are Engrs.-in-Charge.

SHINER, TEX.—Bids are asked until noon, April 10, for the erection of a steel standpipe, 16 × 100 ft., for the city water-works plant. Louis Trautwein is Mayor.

DANVILLE, ARK.—A. Pace, Danville, advises us that he is open for bids for one 100,000 and one 200,000-gallon steel tank on foundation; 1½ to 2 miles of 2½ and 3-in. wrought iron pipe, and 2½-in. fire hydrants, tees and crosses.

DALLAS, TEXAS.—THE WILLIAM TOD CO., Youngstown, Ohio, was awarded the contract on March 18 by the Water-works Commission for installing a high service pumping engine, at $64,500. Dan F. Sullivan is Sewerage and W.-Wks. Comr.

OKLAHOMA CITY, OKLA.—Bids are asked until noon, April 10, by the Board of Water Commissioners for an extension to the filter plant as follows: A sedimentation basin to hold 1,320,000 gallons; a clear well to hold 1,320,000 gallons; a system of filtration capable of producing not less than 4,000,000 gallons in 24 hours; both clear well and sedimentation basin to be of reinforced concrete construction. Bids will be received on the work in its entirety, or separate bids on the sedimentation and clear basins. D. A. Johnston is Supt. Comrs.

CANON CITY, COLO.—It is estimated that the proposed new water supply system will cost about $225,000. Peter O'Brien, of Canon City, is Engr. L. D. Dawson is City Clk.

HUDSON, COLO.—The Henrylyn Irrigation District has been formed to irrigate 65,000 acres of land lying between the towns of Hudson and Roggen. A proposition has just been made the district by the Intermountain Water Co. to increase the water supply, so that 125,000 acres of land may be reclaimed. A tunnel through the mountains beyond Georgetown, Colo., will be built if the plan of the Intermountain Co. is approved. The proposed tunnel will cost $700,000 or $800,-000 and will bring water from the Williams fork of the Grand River. The water will be carried down Clear Creek to a point just northeast of Denver. A ditch will be built from Clear Creek to the Platte River to the intake of the proposed Henrylyn ditch, which is just south of the Burlington ditch intake. J. H. Ledgewood, Hudson, is Secy. Dist.

FORT CASEY, WASH.—Bids are asked in triplicate, until 11 a. m., April 20, by the Chief Quartermaster, Vancouver Barracks, Wash., for constructing six caisson wells at Fort Casey.

SEATTLE, WASH.—The Board of Public Works has awarded the following contracts: Walden St. and other streets, water-mains, SANFIELD & GIFFORD, at $9,315; 34th Ave., South, water-mains, THE JAHN CO., at $3,928. R. H. Thomson is City Engr.

SEATTLE, WASH.—R. H. Thomson, City Engr., has estimated the cost of street improvements as follows: Florentia St., and other streets, water mains, $13,200; First Ave. North, and other streets, water mains, $4,175; Burke Ave., and other streets, water mains, $23,800.

SEATTLE, WASH.—We are officially advised that an ordinance has been passed providing for the issuance of $2,250,000 of bonds for the extension of the Cedar River gravity supply system of the city. R. H. Thomson is City Engr.

*OAKLAND, CAL.—Bids were opened by the Board of Public Works on March 18 as follows for the pumping machinery to be used at Lake Merrit for an auxiliary salt water pumping station: D'Olier Engineering Co., 121 South Eleventh St., Philadelphia, Pa., $22,745; Corliss Engine Co., Corliss, Wis., $36,600; Joshua Hendy Iron Works, $39,475; Union Engine Co., $45,000; Fairbanks, Morse & Co., $27,990; Atlas Engine Co., $39,750; Doak Engine Co., $28,971; United Iron Works, $35,000; N. Junior & Co., $55,775. F. C. Turner is City Engr.

POMONA, CAL.—W. C. SANDERS, San Dimas, Cal., has been awarded the contract by Emil Firth, Los Angeles, Cal., for installing a complete irrigation system on Monte Vista tract, located about midway between Pomona and Ontario, Cal. Two carloads of Portland cement, 200 yds. of fine sand and 14,000 ft. of cement pipe will be required.

PHOENIX, ARIZ.—An agreement has been executed with the Highland Water Co., conveying to the United States the Highland Canal, together with all water rights, etc., for use in connection with the Salt River Irrigation project, Arizona. The property in question consists of approximately 21 miles of main canal, together with all laterals, sub-laterals, dams, headgates, etc., necessary for its operation. The stipulated price is $5,000.

PALMERSTON, ONT.—Bids are asked until April 14 for the following: Contract A, subdivision (a), labor, etc., for constructing water-works system; subdivision (b), cast-iron water pipe, valves and hydrants; contract B, the supply and erection of a steel stand pipe. J. H. Hyndman is Town Clk. Galt & Smith are Consulting Engrs., 23 Jordan St., Toronto, Ont.

GUELPH, ONT.—The City Council has instructed W. M. Davis, C. E., Berlin, Ont., to prepare a report for the enlargement of the water-works system. Estimated cost, $125,000.

VICTORIA, B. C.—The contract for cast iron pipe to be used in the new water distribution system has been awarded to W. BEVERLY ROBINSON, Montreal, Que., at $100,187.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

CAMBRIDGE, MASS.—The Council has passed an ordinance providing for the construction of a separate sewer system.

*WOONSOCKET, R. I.—Bids are asked by the Board of Sewer Commissioners, City Hall, until 2 p. m., April 14, for constructing about 2,600 ft. of 8-in. sanitary sewers and appurtenances. Frank H. Mills is City Engr.

RUTHERFORD, N. J.—Bids are asked until April 3 by the Council for constructing a lateral sanitary sewer in Gouverneur Ave. F. A. Stedman is Boro. Clk.

YEADON, PA.—The Borough Council has authorized plans for a sewage purification system, including septic tanks and filter beds. Estimated cost, $150,000. Albert S. Demon is Borough Engr.

CHARTIERS, PA.—The Commissioners of the Township have decided to issue $25,000 of bonds for installing a sewer system in East Carnegie and other points in the township.

SCRANTON, PA.—The contract for the construction of Section G of the sewer system has been awarded by the city to O'BOYLE BROS., at $11,275.

HIGH POINT, N. C.—See under Water-Works.

COLUMBUS, S. C.—Bids are asked until noon, April 3, by the Sewer Committee for constructing 12-in. pipe sewers and for furnishing sewer pipe. G. F. Cooper is City Treas.

BENNETTSVILLE, S. C.—Fred. Minshall, Abbeville, has completed plans for the construction of the proposed sewerage system.

*YORKVILLE, S. C.—Bids are asked until 9.30 a. m., April 15, by the Commissioners of Public Works for the construction of a system of sewers, requiring about six miles of pipe line from 8-in. to 10-in. diameter, with manholes, flush tanks, etc. M. C. Willis is Chn. Comrs. Snand Engineering Co., Columbus, S. C., are Engrs.-in-Charge.

*CHATTANOOGA, TENN.—Robert Hooke, City Engr., advises us that the following bids were received on March 17, for (a) the Chestnut St. sewer and (b) for sewer work: Brandon & Davis (a) $56,571, (b) $5,532; Bosler & Flynn, Chattanooga (c) $76,551, (b) $5,629; Guild & Co., Chattanooga, (a) $55,-580; Brewer & Jones, (a) $57,845, (b) $7,345; NOLL CONSTRUCTION CO., Chattanooga, (a) $54,542, (b) $5,520 (awarded contract). Contract was awarded on March 24. Itemized bids are given this week under Contract Prices.

*VERSAILLES, KY.—Bids are asked by the Mayor and Council until April 20 for the construction of a complete system of sanitary sewers. Drake C. Naive is Clk. Council. The Holmboe Co., Lincoln Bank Bldg., Louisville, Ky., are Engrs.-in-Charge.

COSHOCTON, OHIO.—Bids are asked until noon, April 9, by the Board Public Service for the construction of a sanitary sewer in 15th St., from Chestnut St. to North St. R. M. Temple is Clk. Bd.

STEUBENVILLE, OHIO.—Bids are asked until noon, April 20, by the Board of Public Service for the construction of a 36-in. brick sewer on South St. from Sixth St. to the Ohio River. H. G. Simpson is Clk. Bd.

CAMBRIDGE, OHIO.—O. M. Hoge, City Engr., has been directed by Council to prepare plans for the construction of a sanitary sewer on Wall Ave., from North Third to Foster Ave.

NORWALK, OHIO.—L. Corron, Norwalk, has submitted the lowest bid for the construction of the Chatham St., and St. Mary's St. sewers, at $7,541 and $3,638.

INDIANAPOLIS, IND.—Following contracts have been awarded by the city for the construction of sewers: for sewer in the first alley south of Wyoming St., to WILLIAM YATES & CO., at $1.33 per ft.; for sewer in first alley north of 33d St., to JOHN JENKINS, at $1.67½ per ft. Blaine H. Miller is City Engr.

KNIGHTSTOWN, IND.—The City Council has ordered the City Engineer to prepare plans for the construction of two miles of sanitary sewer.

BLOOMINGTON, IND.—The City Council has voted to have a sewerage system constructed, estimated to cost $103,000. Bids will be asked as soon as specifications are completed.

FLINT, MICH.—Plans are being considered for the construction of 1,000 ft. each of 30, 15 and 12-in. tile sewerage in Genesee County. Moses Middleton is City Engr.

OSHKOSH, WIS.—Bids are asked until April 18 by the Board of Public Works for constructing a sewer in Ninth St.

BELOIT, WIS.—Bids are asked until 10 a. m., April 3, by the Board of Public Works for constructing a storm water sewer in various streets.

ARGENTINE, KAN.—L. L. MAXON has been awarded the contract at $3,780 for constructing a 24-in. tile sewer from Boeke St. to Ninth St.

REES BROWN secured the contract for constructing 2,000 ft. long sewer from Second St. to Cherry Ave., to Kaw River, at $5,000.

HURON, S. DAK.—Bids are asked until April 10, by the City Council, for the construction of two main lines of sewers, one in Ninth St., from Dakota Ave. east to the James River, and the other in Third St., from Illinois St., east to the James River, and in Dakota Ave., from First St. south to Fifth St. Neil McKay is Mayor.

FORT D. A. RUSSELL, WYO.—Bids are asked until April 18, by Capt. V. K. Hart, Constructing Q. M., for extending water and sewer system at this post. About 7,000 ft. of sewer pipe and the same amount of water pipe will be laid.

WAURIKA, OKLA.—M. GRIFFIN O'NEIL, Dallas, Texas, has been awarded the contract for constructing the sewer system.

STERLING, COLO.—The contract for the construction of the sewer system 9½ miles long, for Sterling, was awarded on March 19 by the city to C. G. SHEELEY, Denver, Colo., at $46,000.

TACOMA, WASH.—N. MARUCA, has been awarded the contract by the city for work in sewer district No. 174 at $20,458. Other bids were as follows: A. Gehri & Co., $25,-990; Stoll & Sweeney, $25,770; N. A. Jones, $22,312; Lister Construction Co., $23,274. Frank L. Davis is City Engr.

SEATTLE, WASH.—W. F. MANNEY & CO., have been awarded contracts by the Board Public Service for the construction of sewers in 59th and 60th Sts., at $5,934 and $3,122, respectively.

R. H. Thomson has estimated the cost of constructing a sewer in 23d Ave. West, and other streets, at $69,804.

SEATTLE, WASH.—GRANT, SMITH & CO. have been awarded the contract by Board Public Works, at $931,462 for the construction of the Green Lake branch of the North Trunk sewer. Noted March 26. R. H. Thomson is City Engr.

SAN DIEGO, CAL.—The Board of Public Works awarded the contract on March 20 to C. H. JULIAN for constructing a sewer in C St., from Fourth St. to India St., at $7,000.

*GUELPH, ONT.—Bids are asked until noon, April 20, by J. J. Hackney, Mgr. Guelph Water-Wks., for 21,000 lin. ft. of 24-in. sewer pipe. Davis & Johnston, Berlin, Ont., are Engrs.-in-Charge.

GARBAGE DISPOSAL.

(* *denotes that this work is advertised in Engineering News.*)

*HOLYOKE, MASS.—Bids are asked by the Board Public Works until 1.30 p. m., April 24, for one 8-ton tandem steam roller. Oscar C. Ferry is Asst. Clk. Bd.

HARTFORD, CONN.—Separate bids are asked by the Board of Contract and Supply until 11 a. m., April 6, for the removal of garbage and ashes and rubbish, for a period of five years from June 1, 1908.

MIDDLETOWN, CONN.—A. BRAZOS & SONS were awarded the contract on March 24 by the city for street sprinkling, at $1,488.

TARENTUM, PA.—Bids, including plans and specifications are asked until April 13 by Michael Burkett, Chn. Health & Sewer Com., care of W. A. Gibson, Boro. Secy., for the construction of a garbage furnace, odorless, of not less than 20 tons capacity daily.

NORFOLK, VA.—Pratt & Whitman, Lowell, Mass., will construct a crematory rendering plant in Norfolk.

CINCINNATI, OHIO.—The Ways and Means Committee of the General Council on March 23 awarded the contract for the disposal of garbage to ALBERT KELLY of the Highlands at $1,500 per yr.

BIGGS, CAL.—The contract for constructing the water plant for sprinkling purposes was awarded on March 18 by the city to W. M. DOTY, at $1,085.

EDMONTON, ALTA.—The Decarie Co. will install an incinerator here at a contract price of $40,500.

STREETS AND ROADS.

(* *denotes that this work is advertised in Engineering News.*)

CONCORD, N. H.—Bids are asked until 5 p. m., April 14, by A. W. Dean, State Engr., for macadamizing in the town of Pembroke.

CONCORD, N. H.—Bids are asked until April 9 by A. W. Dean, State Engr., Concord, for about 4,975 ft. trap rock pavement.

ALBANY, N. Y.—The following bids were received by Frederick Skene, State Engr. and Surv., on March 21, for the improvement of State roads in Essex County:

County Line-Aiden Lair road, 3.64 miles: Spuyten Duyvil Construction Co., New York, $32,640; Joseph T. B. Jones, New York, $35,260; John F. Creedon, New York, $29,462; D. Moynehan, Herkimer, N. Y., $29,669; S. B. Rodgers, New York, $38,987; Michael F. Dollard, Albany, N. Y., $30,516.

Port Henry-Westport road, 4.07 miles: Thomas H. Karr, Troy, N. Y., $31,803; Spuyten Duyvil Construction Co., New York, $34,249; S. B. Rogers, New York, $43,800; John F. Creedon, New York, $31,248; Michael F. Dollard, Albany, N. Y., $31,922; Buckley Construction Co., Plattsburgh, N. Y., $29,757.

Taylors-Schroon Lake Village road, 5.46 miles: Michael F. Dollard, Albany, N. Y., $44,131; Spuyten Duyvil Construction Co., New York, $47,225; P. F. Herlihy, Glens Falls, N. Y., $43,660; Joseph T. B. Jones, New York, $50,270; S. B. Rogers, New York, $57,129.

Aiden Lair-Newcomb road, Sec. 2, 7.03 miles: Joseh T. B. Jones, New York, $81,362; Santonio Construction Co., Albany, N. Y., $61,044; Spuyten Duyvil Construction Co., New York, $74,844; Michael F. Dollard, Albany, N. Y., $63,461.

NEW YORK, N. Y.—Bids are asked until 2 p. m., April 16, by James W. Stevenson, Comr. of Bridges, for repairs to asphalt pavements on bridges over the Harlem River and in the Borough of Manhattan during the year 1908.

NEWARK, N. J.—The contract for repairing streets paved with asphalt was awarded on March 26 by the Board Public Works to the STANDARD BITULITHIC CO., 422 Union Bldg., Newark, at $24,850.

BELLEVILLE, N. J.—Bids are asked until April 7 by J. W. Hirdes, Chn. Township Com., for furnishing material and constructing sidewalks on a part of Washington Ave. J. H. Fransisco, 751 Broad St., Newark, is Surv.

HOPEWELL, N. J.—Bids are asked until 2.30 p. m., April 14, by the Board of Chosen Freeholders, Mercer County, Trenton, N. J., for grading roadway, side ditches and sidebanks, etc., for the improvement of the Hopewell and Stoutsburg road. W. Scott Taylor is Dir. Bd.

CHESTER, PA.—Bids are asked until 10 a. m., April 6, by Charles Hoberger, Chn. Sidewalk Com., for such curbing and paving of the city pavements with granolithic cement as the Sidewalk Committee shall order.

CARRICK (Pittsburg post-office), PA.—Bids are asked until 8 p. m., April 6, by the Borough Council for grading, curbing and paving Brownsville Road from Baldwin St., southwardly to Fairhaven Ave. William M'Clurg Donley is Boro. Engr.

ALTOONA, PA.—The Councils have decided to have streets within the city limits paved this summer with fire brick, block and asphalt at a total cost of about $300,000. There is also about $100,000 worth of work left over from last year which will also be awarded and started this year.

PITTSBURG, PA.—Bids are asked until 10 a. m., April 6, by the Department Public Works for grading, curbing and paving various streets. Alexander B. Shepperd is Dir. Pub. Wks.

TALLEYVILLE, DEL.—The Levy Court on March 24 awarded the contract to B. F. WICKERSHAM for reconstructing the road between Talleyville and Perkins Corner, Brandywine Hundred, 4.55 miles long, at $27,495.

CLARKSBURG, MD.—Bids are asked until April 7 by the County Commissioners, Rockville, Md., for improving the Clarksburg roads, sections Nos. 1 and 2, between Clarksburg and Boyds. Robert G. Hilton is Clk. Comrs.

BALTIMORE, MD.—The contract for furnishing vitrified paving block (Mack) to City Engineer's Department for 1908 has been awarded to WILLIAM W. CLARKE & SON, 546 East Monument St., Baltimore, at about $4,500. B. T. Fendall is City Engr.

WILSON, N. C.—The Specialty Construction Co., Norfolk, Va., has submitted the lowest bid for the construction of 20,000 sq. ft. of granolithic sidewalks.

MONTGOMERY, ALA.—The County Commissioners, Montgomery County, have awarded contracts as follows for 22 miles of road construction: D. R. COOK, Montgomery, for grading and graveling ten miles on Pine Level road; MITCHELL BROS., Montgomery, for grading and graveling three miles on Huffman road; A. T. NEWELL, Birmingham, Ala., for nine miles on Mobile road.

ANNISTON, ALA.—Jefferson Davis and John Smith, Anniston, have submitted the lowest bids for sidewalk paving at 88 cts. per sq. yd. Thomas E. Kilby is Mayor.

HUNTSVILLE, ALA.—Bids are asked until May 1 by the city for paving with vitrified brick on 5-in. concrete foundation, Jefferson St., from its intersection with north side of public square within 50 ft. of center of main track of Southern Railway Co., including all street, avenue or other highway intersections, and for curbing with granite curbstone, and for paving with vitrified brick on 5-in. concrete foundation Washington St., from intersection with north side of public square to intersection with north curb line of Meridian pike or street, including all street, avenue or other highway intersections, and for curbing with granite curbstone.

NEW ORLEANS, LA.—The Newcomb Realty Co., William E. Grunewald, Pres., has awarded the contract to CALONGE & SARGENT, New Orleans, for paving in front of ten squares of their property.

LOUISVILLE, KY.—THE HENRY BICKEL CO., 1052 Garden St., Louisville, was awarded the contract on March 25 by the Board Public Works for paving 18th St., from Ormsby Ave. to Magnolia Ave., and Clay St., from Main to Water St., with granite block pavement, at $27,000. J. P. Claybrook is Ch. Engr. Bd.

CINCINNATI, OHIO.—Bids are asked until noon, April 17, by the County Commissioners for the improvement of the Miami River road from Miamitown to Mt. Hope road, Whitewater Township. Fred Dreihs is Clk. Bd.

SPRINGFIELD, OHIO.—M. J. Bahin, City Engr., has prepared plans for macadamizing, curbing and guttering several streets. Estimated cost, $10,000.

SPRINGFIELD, OHIO.—Bids are asked until noon, April 6, by the Board of Public Service for grading, sidewalks, etc., from April 15 to Nov. 15. William H. Mahoney is Clk. Bd.

ZANESVILLE, OHIO.—Bids are asked until noon, April 6, by the Board of Public Service for paving and curbing Ninth St., from Main to Marietta Sts. J. T. Hahn is Clk Bd.

CLEVELAND, OHIO.—Bids are asked until noon, April 6, by the Board of Public Service for laying, relaying and repairing stone and cement sidewalks. A. R. Callow is Secy. Bd.

CINCINNATI, OHIO.—Bids are asked until noon, April 17, by the County Comrs. for the improvement of the Miami River road. Fred. Dreihs is Clk. Comrs.

LAGRANGE, IND.—Bids are asked by the Board of Town Trustees until April 6 for about 12,000 sq. yds. brick pavement. Harold A. Keith, Goshen, Ind., is Engr.

JEFFERSONVILLE, IND.—Bids are asked until April 8 by the Board of Public Works for paving with vitrified block a 30-ft. roadway on East Seventeenth St., also street and alley intersections on 6-in. Portland cement and gravel concrete foundation, curbstone, granitoid sidewalk, etc.

KOKOMO, IND.—Bids are asked until 2 p. m., April 9, by the Commissioners of Howard County for the construction of gravel and macadamized roads in various townships, and until 10 a. m., April 15, for the construction of various gravel roads. William L. Benson is County Audr.

NOBLESVILLE, IND.—Bids are asked until 1 p. m., April 8, by the Commissioners of Hamilton County, for the construction of 33 gravel roads in Jackson, Adams, Noblesville, White River, Delaware, Clay and Washington Townships. N. W. Cowgill is County Audr.

INDIANAPOLIS, IND.—Bids are asked by the Board of Public Works until 10 a. m., April 18, for the resurfacing with bitulithic a number of streets, for the grading, gravelling and curbing of a number of streets, for the paving with brick of a number of streets and alleys and for the construction of cement sidewalks.

INDIANAPOLIS, IND.—Plans have been ordered and bids will soon be asked for cement walks, brick gutters and curb in Wright St.; cement walks, curb and approach walks in Highland Ave.; bitulithic roadway and curb in Euclid Ave.; gravel roadway and curb in Moore Ave.; gravel roadway, cement walks and curb, Congress St.; and for brick roadways in portions of the following alleys: First alley north of Twelfth St.; first alley east of Park Ave.; first alley west of East St., and for brick masonry in Maryland St., from Noble to Leota St.

HARVEY, ILL.—Bids are asked until 8 p. m., April 3, by the Board Local Improvements for improving various streets, the work including 1,800 cu. yds. grading, 8,160 lin. ft. limestone concrete curb, and 10,953 sq. yds. repressed vitrified brick paving on crushed limestone foundation.

JOLIET, ILL.—The Board of Local Improvements awarded the contract on March 22 to THE METROPOLITAN ENGINEERING & CONSTRUCTION CO., Chicago, Ill., for paving Campbell St. with asphalt, at $2.10 per sq. yd.

JANESVILLE, WIS.—Bids are asked until April 10 by the Street Assessment Committee for paving a portion of East Milwaukee St., City Hall and Lincoln School alley with brick.

TOMAH, WIS.—Bids are asked by D. J. Ailer, City Clk., until April 18, for about 13,473 sq. yds. brick pavement on sand foundation, 4,450 lin. ft. concrete curb and gutter, and 3,804 lin. ft. plain concrete curb.

DAVENPORT, IOWA.—THE McCARTHY IMPROVEMENT CO. has been awarded the contract for paving Howell St. with brick (bids opened March 17) at $13,179.

NEW BRIGHTON, MINN.—Bids are asked until April 13 by the Board of County Commissioners, St. Paul, Minn., for a gravel screening plant, set up complete in New Brighton, and a portable gasoline engine and tank of a horsepower of sufficient power to operate the screening plant, together with all tool appliances and connections with the elevator and screen. Edwd. G. Krahmer is County Audr.

MINNEAPOLIS, MINN.—The following bids were received by the City Council on March 17, for creosoted wood blocks to be used during 1908: Kettle River Quarries Co., Minneapolis, $1.39 per sq. yd., f. o. b. Minneapolis; Republic Creosoting Co., Minneapolis, $1.44 per sq. yd., f. o. b. Minneapolis. Andrew Rinker is City Engr.

TOPEKA, KAN.—Bids are asked until April 6 by C. B. Burge, City Clk., for grading, curbing and paving ten blocks of new pavement and repaving 13 blocks on present concrete foundation.

INDEPENDENCE, KAN.—E. P. DELONE & CO. were awarded the contract on March 17 by the Council for paving Sycamore St., from Ninth St. to the city limits, and Ninth St., from Main to Railroad Sts., 17 blocks, at $57,000.

JACKSON, MO.—Bids are asked until 6 p. m., April 6, by William Paar, City Clk., for macadamizing, graveling, curbing and guttering First North St.

ST. LOUIS, MO.—Board of Public Improvements has let contracts for improvement of approximately six miles of streets as follows: Victor St., brick, FRUIN & COLNON, Laclede Bldg., St. Louis, Mo., $13,522; De Soto Ave., JAMES T. McMAHON, $8,296; 20th St., JAMES T. McMAHON, $17,957; Shaw Ave., PARKER WASHINGTON CO., 4500 Duncan St., St. Louis, $17,576; Grand Ave., RUECKING CONSTRUCTION CO., Marine Ave. and Gasconade St., St. Louis, $19,062; Nebraska Ave., FRUIN & COLNON, $31,180; Michigan Ave., RUECKING CONSTRUCTION CO., $5,775; Minnesota Ave., HOFFMAN-HOGAN CONSTRUCTION CO., 2712 Wyandotte St., St. Louis, $16,321; Texas Ave., SKRAINKA CONSTRUCTION CO., $3,885; Spring Ave., RUECKING CONSTRUCTION CO., $16,224; Lucky St., SKRAINKA CONSTRUCTION CO., Security Bldg., St. Louis, $11,954; Gasconde St., HOFFMAN-HOGAN CONSTRUCTION CO., $9,571; Taylor Ave., GUSTAVUS A. HEMAN, $21,816; Compton Ave., RUECKING CONSTRUCTION CO., $10,904; Cora Ave., HANICK QUARRY & CONSTRUCTION CO., $9,893; Krum Ave., SKRAINKA CONSTRUCTION CO., $3,475; Montana St., RUECKING CONSTRUCTION CO., $7,954; North Market St., brick, GUSTAVUS A. HEMAN, $28,845; Spring Ave., FRUIN-BAMBRICK CONSTRUCTION CO., Chemical Bldg., St. Louis, $13,234; Monroe St., granite, JAMES T. McMAHON, $4,218; Victor St., SCHNEITER GRANITE CO., $30,376; Bremen Ave., G. EYERMANN & BRO., 1216 South Grand Ave., St. Louis, $8,337; La Salle St., G. EYERMANN & BRO., granite, $6,232; Westminster St., PARKER WASHINGTON CO., wood blocks, $16,071.

LAKE VILLAGE, ARK.—Bids are asked until April 11 for constructing about 2,375 lin. ft. of concrete sidewalks 5 ft. wide on 4-in. foundation, of gravel, sand and cement.

BALLINGER, TEX.—We are officially advised that the city has voted $20,000 of bonds for street improvements. John Hoffer is Mayor.

BOWIE, TEX.—The citizens have voted to issue $15,000 street improvement bonds. William A. Ayres is City Treas.

SEATTLE, WASH.—The Board of Public Works has awarded the following contracts: Alley in block No. 14 and other alleys, Maynard's Addition, paving with brick and sandstone, COAST CONCRETE CO., $6,195; Columbia St., paving with sandstone blocks, C. J. ERICKSON, 1512 Fifth St., Seattle, $6,428; Sixth Ave., South, and other streets, planking, ELMER JOHNSON, $8,668; alleys in blocks Nos. 9 and 10, Maynard's Addition, paving with vitrified brick, PAUL STEENSTRUP, $3,721; 32d Ave., Northwest, concrete sidewalks, C. P. GRAFF, $3,640.

An ordinance has been passed providing for the regrading of Olive St. and other streets, at an estimated cost of $50,400. R. H. Thomson is City Engr.

CHEHALIS, WASH.—Bids are asked until April 20 by the City Clerk for paving portions of Park St., Chehalis Ave. and Pacific Ave., bids to be based on brick, Hassam, bitulithic, asphalt and cement blocks. Estimated cost, $20,000.

SEATTLE, WASH.—We are officially advised that contracts have been awarded by the Board of Public Works, as follows: Madison St., standstone block paving, F. McLELLAN & CO., at $5,431; 26th Ave., S. W., and other streets, planking, J. W. KERRY, at $7,832.

R. H. Thomson, City Engr., has reported the estimated cost of the following improvements: 15th Ave., N. E., and other streets, grading, $13,200; Fourth Ave. North, concrete sidewalks, $3,000; Eastlake Ave., paving asphalt, etc., $115,000; Tenth Ave., N. E., concrete sidewalks, $4,275.

SPOKANE, WASH.—Bids are asked until 2 p. m., April 10, by the State Highway Board, Olympia, for grading and macadamizing state aid road No. 11, known as the Bigelow gulch road, Spokane County. Joseph M. Snow is Secy Bd.

OAKLAND, CAL.—Bid[illegible] asked until [illegible] p. m., April 6, by th[illegible] Council for macadamizing 29th St., [illegible] Fairmont St. to a point 410 ft. east of [illegible]way, 47th St., from Grove to Telegraph [illegible] and 17th Ave., from 20th to 21st Sts. [illegible] Turner is City Engr.

OXNARD, CAL.—Bids [illegible] asked until [illegible] p. m., April 14, by C. [illegible] for grading, etc., Fifth St[illegible] City Clk.

WALLACE, IDAHO.—[illegible] are asked by the County Commissioner[illegible] April 15 for constructing the St. Joe [illegible] road. Estimated cost, $20,000.

MANUFACTURIN[illegible] PLANTS.

(* *denotes that this work [illegible] advertised in Engineering N[illegible]*)

SALEM, MASS.—The W[illegible] Mosser Co. will erect a 2-story frame [illegible] 80 × 206 ft., to cost about $30,000. [illegible] G. Ruhe, 180 South St., Boston, is [illegible]

INDUSTRY, N. Y.—Con[illegible] has been let by Miss Laura Aldrich, P[illegible] of Mgrs. New York State Agricul[illegible] and Industrial School, to R. T. F[illegible] CO., South Ave., Rochester, N. Y., fo[illegible] struction of a grist mill.

YORK, PA.—C. E. Yost [illegible] intend to erect a shoe factory in [illegible] York. It will be a 3-story brick str[illegible] 50 × 150 ft., in dimensions, and the [illegible] factors, ELI STARE & BRO., 1350 [illegible] George St., North York, expect[illegible] have it completed by the first [illegible] June. The plant is to be lo[illegible] on the property of William H. [illegible] along the west side of George St. n[illegible] the second toll gate.

PITTSBURG, PA.—The S[illegible]dard Steel Tie Co., Curry Bldg., has [illegible] organized with a capital of $133,000. [illegible] The company will manufacture Standard [illegible] ties and fasteners for street railway [illegible] and railroad service. It intends to erect [illegible] buildings near for the manufacture of the new tie and fasteners.

SHAMOKIN, PA.—Peter A. Kline, of Bloomsburg, Pa., inventor of Kline-Buss smokeless powder, will erect a mill here to cost about $50,000, according to press reports.

WASHINGTON, D. C.—Bids are asked until noon, April 13, by Capt. H. L. Pettus, Q. M., Washington Barracks, D. C., for constructing an addition to the bakery at Washington Barracks, including plumbing, gas piping, wiring, lighting fixtures and steam heating.

LYNCHBURG, VA.—E. C. Ivey and associates will establish an ice and cold storage plant, expending about $40,000. The ice factory will be 127 × 67 ft. of brick. The cold-storage plant will be 60 × 48 ft. JONES & ADAMS, Lynchburg, have the contract; Lewis & Burnham, National Bank Bldg., Lynchburg, are Archs.

TALCOTT, W. VA.—The Talcott Hardware & Feed Co. will establish a flour and feed mill, it is stated. The company will erect a 2-story building, 120 × 50 ft.; architect has not been engaged. J. W. Ford is Pres.; G. F. Scott, Mgr.

COOLEEMEE, N. C.—The building of the Cooleemee Cotton Mills, which was recently burned, is to be rebuilt and the company will arrange for the erection of the new structure at once. This building contained the slasher, lapper and drawing departments and the loss was about $40,000. The company has been operating 40,000 spindles and 1,296 looms, manufacturing mottled and canton flannels. W. A. Erwin is Pres.

CHARLOTTE, N. C.—R. W. Smith, Charlotte, intends to establish a plant to manufacture wire nails. Work will be started about June 1.

ATLANTA, GA.—C. D. Cabaniss and W. O. Washburn, 175 Augusta Ave., Copenhill, Atlanta, contemplate establishing a peach cannery with a capacity of 150,000 cans a season. Machinery has not been purchased.

JACKSONVILLE, FLA.—We are officially advised that the TURNER CONSTRUCTION Co., 11 Broadway, New York, N. Y., has been awarded a contract by the J. G. Christopher Co., machinery and mill supplies, of Jacksonville, to construct a reinforced-concrete warehouse 105 × 105 ft., two stories high. This building is to be used for hardware storage. Work will be begun immediately.

ST. STEPHENS, ALA.—The Mobile Portland Cement Co. expects to contract for machinery about April 15 or May 1. Buildings will be erected of reinforced concrete; modern machinery will be installed with daily capacity of 2,500 to 3,000 barrels Portland cement. The cost will be about $1,000,000. A cooperage plant will also be included. Wm. Watson Thompson is Secy., Mobile, Ala. Noted fully on Jan. 23.

GADSDEN, ALA.—The Campbell Mfg. Co. has awarded contract to LITSEN & AMBERSON, of Gadsden, Ala., for erection of building 100 × 250 ft., to be equipped for manufacturing pipefittings and plumbing supplies. The company will also erect buildings 50 × 80 ft., 40 × 60 ft. and 20 × 40 ft., all constructed of wood and concrete. Cost of structures, $7,500; machinery, $12,500. Otto Agricola is Pres.

HATTIESBURG, MISS.—It is intended to rebuild the sawmill of the J. J. Newman Lumber Co., recently burned at a loss of [illegible]0,000. Ferdinand Peck, of Scranton, Pa., is Pres.

CLARKS, LA.—The Louisiana Central Lumber Co. will reconstruct dry kilns, sheds, etc., recently destroyed by fire. The dry kilns will cost 30,000.

NEW ORLEANS, LA.—Bids were received as follows March 28, at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a sawmill and boat shop at the Naval Station, New Orleans: Arthur Leibe, 2429 Howard St., New Orleans, (1) $59,776, (2) $56,526, omitting one bay, (3) $59,201, omitting hot-water heating

crystem, (4) $58,086, omitting electric wiring. David H. Barnes, 705 Hennen Bldg., New Orleans. (1) $55,586, (2) $51,486, (3) $54,811, (4) $54,811. John Reusch, 406 Hennen Bldg., New Orleans. (1) $60,467, (2) $53,985, (3) $60,042, (4) $59,387. Penn Bridge Co., Second Bldg., Washington. (1) $57,900, (2) $55,700, (3) $57,300, (4) $56,300.

MEMPHIS, TENN.—W. H. Chadwick and W. H. Carter of the American Bag Co., New South Memphis, intend to erect a calico printing plant.

CINCINNATI, OHIO.—A factory for D. C. Rebhun & Co., shoe last manufacturers, is to be erected in Langdon Ave., near Montgomery Road, Evanston, to cost about $50,000. Plans for the improvement are being prepared by Bert L. Baldwin & Co., Perin Bldg., Cincinnati, and work on the plant will be started at once. A group of buildings will provide the necessary space. The main structure will be "L" shaped, 160 × 50 ft., with a wing 50 × 110 ft. A dry kiln, detached power and boiler house and storage house will be erected. All the buildings will be of one story.

The Fenton Dry Cleaning & Dyeing Co., 2818 Woodburn Ave., T. T. Fenton, proprietor, will erect a $25,000 dry cleaning establishment on Reading road and Hickman St., Avondale. There will be two buildings, one 97 × 87 ft., containing finishing, repairing and office departments. The cleaning work will be carried on in a fireproof building 60 × 20 ft., which will be lower than the other structure. Each will be one story high.

BARBERTON, OHIO.—The Diamond Match Co., 111 Broadway, advises us that plans are being prepared for a plant to be built at Barberton. C. H. Palmer, Diamond Match Co., Barberton, is in charge.

ASHLAND, OHIO.—The Morr Shoe Mfg. Co. will erect a factory here, south of the plant of the Ashland Steel Range Works, Board of Trade addition. A frame building, 22 × 100 ft., will be built. E. E. Morr is Gen. Mgr.

MITCHELL, IND.—The Mitchell Lime Co. will receive bids for erection and equipment of a new lime plant.

PEORIA, ILL.—John M. Baillie, Arch., let contract to FREDERICK MEINTS for a 5-story factory and warehouse building for the Hart Grain Weigher Co.

SUMMIT, ILL.—Estimates are being received by George E. Chamberlain, Engr. of the Corn Products Refining Co., 42 Madison St., Chicago, for a plant to be erected at Summit. There will be 33 buildings, including refining, manufacturing and starch buildings, as well as warehouses. There will also be grain storage tanks with capacity of 1,000,000 bushels and a large power plant. Cost, $5,000,000.

DAVENPORT, IOWA.—The TRI-CITY CONSTRUCTION CO., Masonic Temple, Davenport, has been awarded the general contract to erect a 3-story factory building for the Davenport Wagon Co.

ST. PAUL, MINN.—The Red Wing (Minn.) Sewer Pipe Co. will establish a fireproof sewer pipe plant here this year. Clay pipes will be manufactured. Cost, $300,000.

GREAT FALLS, MONT.—A. D. Mackay will establish a plant for manufacturing wall plaster and similar products, having purchased two large tracts of gypsum-bearing lands on Belt Creek, about 30 miles south of the city. Mr. Mackay will build a mill in Great Falls during the summer. The mill will employ about 50 men.

SUGAR CREEK, MO.—We are officially advised that the FREEBORN ENGINEERING & CONSTRUCTION CO., Scarritt Bldg., Kansas City, Mo., has been awarded the contract for the engineering and construction work on the plant of the Crushed Stone & Filler Co., at Sugar Creek, Mo. The engineering work has started and construction work will follow immediately.

ST. LOUIS, MO.—A shoe factory will be erected as an addition to the present plant of the Hamilton-Brown Shoe Co., Jefferson Ave. and Randolph St. The building will have two stories, 232 × 53 ft., will be built of brick and concrete and will cost $36,000. Harry M. Zimmerman is Supt. The contract has been let to MURCH BROS., Odd Fellows' Bldg., St. Louis, by Isaac S. Taylor, Arch., 715 Locust St.

WINNSBORO, TEX.—The Ogburn Canning Co., of Lindale, Tex., will erect a canning factory. There will be a 2-story building, 50 × 100 ft.; also shed, 50 × 100 ft. Cost of building, $2,000; cost of machinery, $8,000. The plant will have a daily capacity of 30,000 cans. J. S. Ogburn is Mgr.

MEXIA, TEX.—The Mexia Ice & Refrigerator Co. will erect a brick building, 58 × 150 ft., to accommodate a 50-ton ice plant. Building will cost about $7,000; machinery, $25,000. N. B. Robinson is Treas. and Mgr.

FORT WORTH, TEX.—The Chicago, Rock Island & Pacific Ry. Co. will expend about $250,000 for roundhouse and repair-shop improvements, it is stated. H. U. Mudge, Chicago, Ill., Second Vice-Pres.

OKLAHOMA CITY, OKLA.—The Oklahoma Implement Mfg. Co. will erect foundry building to be equipped for manufacturing implements, investing about $35,000. Plans are being prepared. D. W. Lackey is interested.

DELTA, COLO.—The Purity Sugar, Land Irrigation & Cattle Co. has been organized, with a capital of $2,250,000, for the purpose of erecting a sugar plant here, to have a capacity of 1,200 tons and to cost about $1,250,000. M. K. Dunbar is Pres.

SAN LUIS OBISPO, CAL.—Bids are asked by the Board of Trustees of the California Polytechnic School until 10 a. m., April 15, for the erection of a creamery.

RIVERSIDE, CAL.—The following bids were opened on March 23 by the Commissioner of Indian Affairs, Interior Dept., Washington, D. C., for ice and cold storage plant at the Sherman Institute, Riverside, Cal.: Cyclops Iron Works, 223 Main St., San Francisco, Cal., $2,700, ice and cold storage plant; time as specified. Will P. Stevens, 616 North Main St., Los Angeles, Cal., $3,015, ice and refrigerating machinery, etc.; time, Aug. 1. W. D. Lovell, 1415 Eighth St, S. E., Minneapolis, Minn., $7,600, boiler and refrigerating plant. Vulcan Iron Works, 604 Mission St., San Francisco, Cal., $6,100, ice and refrigerating machinery, except vertical steam engine; time, Aug. 1. Frick Co., Waynesboro, Pa., $10,420, boilers, ice and refrigerating machinery; time, Aug. 1.

TINTIC (Silver City post-office), UTAH.—H. P. Saunders, Constructing Engr. for the Jesse Knight Smelter at Tintic, has announced that the contract has been let for the copper blast furnace building to the MINNEAPOLIS STEEL & MACHINERY CO., 28th and Minnehaha Sts., Minneapolis, Minn. The building will be 34 × 50 ft., and the initial capacity of the copper furnace will be 125 tons a day. Mr. Saunders states that the furnace will be 24 × 120 ins., capable of being extended to 25 ft. in length.

HULL, QUE.—The International Portland Cement Co., Hull, Que., has awarded the contract to the PHOENIX BRIDGE CO., Phoenixville, Pa., for the steel work of the new buildings which they purpose erecting.

TORONTO, ONT.—W. Lunenfeldt has bought property on Agnes St., near University Ave., upon which to erect a metal factory, to cost $15,000. H. H. Williams, 26 Victoria St., Toronto, is interested.

TWEED, ONT.—The Ontario Powder Co., Brock, Kingston, Ont., is to build its permanent works at Stoney Point, a quarter of a mile further away from Tweed.

KENORA, ONT.—We are officially advised that G. H. ARCHIBALD & CO., INC., Union Bank Bldg., Winnipeg, Man., have been awarded the contract for rebuilding the Maple Leaf Flour Mills here, recently destroyed by fire. The new buildings will cost approximately $600,000.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

EXHIBITION GROUNDS.—Portland, Ore.—See under Buildings.

*DREDGING.—Boston, Mass.—Bids are asked until noon, April 30, by Lt.-Col. Edward Burr, Corps Engrs., U. S. A., for dredging Dorchester Bay and Neponset River, Mass.

WHARF, CAUSEWAY.—New Orleans, La.—Bids are asked by Capt. Arthur Cranston, Q. M., U. S. A., until 10 a. m., April 20, for constructing wharf and causeway at Fort St. Philip, La.

CEMENT.—Winnipeg, Man.—Bids are asked by the Chairman of the Board of Civic Control until noon, April 7, for the supply of from 15,000 to 20,000 bbls. of cement. H. N. Ruttan is City Engr.

*TEST BORINGS.—St. Louis, Mo.—Bids are asked until noon, April 30, by the Board on Examination and Survey of Mississippi River, Liggett Bldg., St. Louis, Mo., for making test borings in the river bottom lands between St. Louis and Cairo. Capt. G. R. Lukesh, Corps. Engrs., U. S. A., Recdr.

DITCH.—Frankfort, Ind.—Bids are asked by William A. Robison, Drainage, Comr., until 2 p. m., April 11, for the construction of the Colfax ditch.

DITCHES.—Alexandria, Minn.—Bids are asked until April 3 by E. P. Wright, County Audr., for digging and constructing main ditches and branches of County Ditch No. 16.

DITCH.—Juneau, Wis.—Bids are asked until May 4 for the construction of proposed Horicon drainage ditch. Estimated cost, $400,000. Leonard S. Smith, of Madison, is Engr.

FERRYBOAT.—Sandpoint, Idaho.—Bids are asked by Ignatz Weil, Clk. Bd. County Comrs., until 10 a. m., April 14, for the construction of a ferryboat at Priest River, Idaho.

LAWN MOWERS.—New York, N. Y.—Bids are asked by the Department of Parks until 3 p. m., April 9, for furnishing and delivering motor, horse and hand lawn mowers for parks, Boro. of The Bronx.

MONUMENT.—Washington, D. C.—Bids are asked by Maj. M. G. Zalinski, Q. M., U. S. A., Washington, until 11 a. m., April 25, for constructing granite monument on Crab Island, Lake Champlain, New York.

DERRICKS.—Brooklyn, N. Y.—Bids are asked until 11 a. m., April 15, by Bird S. Coler, Boro. Pres., for furnishing and delivering six steel frame traveling derricks, with vertical gasoline hoisting engines.

PIER.—Racine, Wis.—Bids were asked by the Board of Public Works until March 21 for construction of double pile protection pier to extend into Lake Michigan. Estimated cost, $3,000. No bids were received.

WALL.—Oakland, Cal.—Bids are asked until 11 a. m., April 15, by the Board of Public Works for the construction of a rip-rap wall between the Eighth St. bridge and Twelfth St. Walter B. Fawcett is Secy. Bd.

SPRINKLING.—New York, N. Y.—Bids are asked until noon, April 9, by Allen N. Spooner, Comr. of Docks, for furnishing all the labor and materials required for sprinkling certain new-made land on the North and East rivers.

TRAVELING DERRICKS.—Brooklyn, N. Y.—Bids are asked until 11 a. m., April 8, by Bird S. Coler, Pres. Boro. Brooklyn, for furnishing and delivering six steel frame traveling derricks, with vertical gasoline hoisting engines.

STEEL PLATES.—Sorel, Que.—Bids are asked until April 5, by F. Gourdeau, Deputy Minister of Marine and Fisheries, Ottawa, Ont., for furnishing about 750 tons of steel plates and shapes required at the Government shipyard at Sorel.

DREDGING PLANT, ETC.—Moline, Ill.—Bids are asked by Maj. C. S. Riche, Corps Engrs., U. S. A., until 2 p. m., April 4, for hire and operation of a dredging plant, to consist of a dipper-dredge, tender and dump-scows, for use at Moline, Ill.

STEEL TOWERS.—Detroit, Mich.—Bids were received by the Eleventh Light-House District, Detroit, Mich., on March 16, for furnishing two steel towers for the Munising Range, Mich., light-station. The CHAMPION IRON WORKS, Kenton, Ohio, was awarded contract at $5,112.

TURRET-TURNING GEAR.—Washington, D. C.—The contract for the electric turret-turning gear of the U. S. S. Delaware, now under construction at Newport News, Va., has been awarded to the CUTLER-HAMMER MFG. Co., of Milwaukee.

DREDGING.—Champaign, Ill.—Bids are asked until April 4 at the office of Ray & Dobbins, attorneys, for dredging the Saline branch, to consist of 14 miles of dredge work, requiring 1,000,000 cu. yds. excavation. Chas. Cottingham, Engr., Danville.

DREDGING.—New York, N. Y.—Bids are asked until noon, April 10, by Allen N. Spooner, Comr. Docks., (Contract No. 1115), for furnishing all the labor and materials required for dredging about 200,000 cu. yds. on the North River, Boro. of Manhattan.

LIGHT VESSEL, REPAIRS.—Portland, Ore.—Bids were received by the Inspector 13th Light-House District at Portland, Ore., on March 7, for making repairs to light vessel No. 67. The contract was awarded to the MORAN CO., Seattle, Wash., at $10,645.

TROLLEY TRACKS, ETC.—New York, N. Y.—Bids are asked until 2 p. m., April 16, by the Department of Bridges, for constructing the roadway pavement and inside trolley tracks over the Blackwell's Island bridge over the East River, between the Boroughs of Manhattan and Queens.

CONCRETE WALL.—Barnegat, N. J.—Bids were received by the Engineer, Fourth Light-House District, Wilmington, Del., on March 17, for constructing a concrete retaining wall at the Barnegat, N. J., light-station. Contract was let to WM. LINKER, Philadelphia, Pa., at $2,846.

(Continued on next page.)

CONTRACT PRICES.

[Where * precedes items under Contract Prices the work was advertised in Engineering News.]

*FILTERS, SETTLING BASIN.—Springfield, Mass.—Bids were received by the Board of Water Commissioners on March 25 for the construction of a sedimentation basin, six covered masonry filters, buildings and appurtenances. E. E. Lochridge is Ch. Engr. Bd. Allen Hazen, 220 Broadway, New York, is Consult. Engr. The bidders and bids in detail were as follows: (A) CHAS. R. GOW CO., 79 Milk St., Boston, Mass. (awarded contract); (B) Coleman Bros., Boston; (C) Hugh Nawn Contracting Co., Roxbury, Mass.; (D) Fred. T. Ley & Co., Inc., Springfield, Mass.; (E) Pierson Engineering & Construction Co., Bristol, Conn., and Sperry & Sellers Co., New Haven, Conn.; (F) the C. H. Fath & Sons Const. Co., Cleveland, Ohio; (G) Newell & Snowling Construction Co., Uxbridge, Mass.; (H) Long & Little & Co., Leominster, Mass.; (I) T. Stewart Son Co., Newton, Mass.; (J) Loring N. Farnum Co., Boston; (K) Beckwith & Moynehan, Herkimer, N. Y.; (L) Chas. N. Taylor, Wellesley, Mass.; (M) John Donohue, Springfield; (N) Bruno & Petitti, Boston; (O) Holbrook, Cabot & Rollins Corporation, Boston; (P) the N. Y Continental Jewell Filtration Co., New York; (Q) Spuyten Duyvil Construction Co., New York:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
10 acres grubbing	$150.00	$200.00	$150.00	$120.00	$200.00	$125.00	$300.00	$100.00	$200.00
66,000 cu. yds. general excavation	.35	.40	.45	.45	.55	.42	.40	.45	.48
3,700 cu. yds. trench excavation	.75	.75	1.25	.88	1.00	1.10	1.00	.45	1.00
700 cu. yds. rock excavation	1.50	3.00	2.50	3.00	3.00	2.00	4.00	2.00	3.00
16,500 cu. yds. borrowed excavation	.70	.50	.60	.65	1.00	.50	.50	.63	.65
56,000 cu. yds. rolled embankment	.16	.15	.25	.23	.30	.42	.30	.15	.15
5,000 cu. yds. rock fill	.50	.75	.60	.75	1.00	.90	.75	.50	1.25
3,000 sq. yds. paving	1.00	1.25	1.00	1.20	.75	1.00	1.50	.75	1.00
23,000 cu. yds. general fill	.22	.30	.30	.35	.35	.45	.30	.17	.40
2,000 sq. yds. sodding	.50	.40	.35	.30	.30	.15	.40	.27	.30
7 acres seeding	50.00	100.00	50.00	60.00	30.00	75.00	100.00	25.00	100.00
150 cu. yds. rubble masonry	3.00	4.00	6.00	2.40	5.00	6.00	5.00	2.00	5.00
975 cu. yds. concrete with reinforcing	8.00	10.00	10.00	9.75	10.00	8.25	10.25	11.50	10.50
3,650 cu. yds. concrete in piers and vaulting	8.00	7.00	9.00	9.50	8.50	7.50	9.25	10.50	9.00
8,000 cu. yds. all other concrete	5.50	6.00	7.25	7.25	6.15	7.90	7.25	9.00	7.50
50,000 lbs. steel reinforcing	.03	.04	.04	.036	.0325	.04	.04	.03	.045
4,000 cu. yds. filter gravel	1.25	1.50	1.35	1.25	.....	....	1.75	1.45	....
15,000 cu. yds. filter sand	1.00	1.40	1.35	.....	.....	....	1.35	1.45	1.45
Outside drains	2,000.00	1,600.00	1,700.00	1,600.00	1,250.00	927.00	1,500.00	1,696.05	2,200.00
Central drain	3,500.00	2,900.00	2,300.00	2,100.00	1,900.00	2,208.00	3,000.00	2,415.33	2,800.00
Split tile drains	2,500.00	2,500.00	2,500.00	1,650.00	1,800.00	1,960.00	2,500.00	1,733.00	2,000.00
43 tons placing steel pipe	10.00	12.00	25.00	3.50	10.00	7.00	12.50	5.00	10.00
300 tons placing cast-iron pipe and gates	12.00	10.00	16.00	6.50	15.00	10.00	10.00	12.00	17.00
Sand washers and piping	5,000.00	8,100.00	4,000.00	6,300.00	1,200.00	4,065.00	7,500.00	7,000.00	6,000.00
Office and laboratory	11,000.00	8,600.00	7,000.00	9,600.00	5,400.00	9,000.00	10,000.00	9,014.52	10,500.00
Regulator house	4,200.00	2,000.00	2,400.00	2,850.00	1,800.00	4,500.00	3,000.00	4,419.50	4,150.00
Three filter entrances	3,000.00	2,400.00	2,300.00	1,800.00	1,700.00	1,440.00	3,500.00	2,067.50	3,000.00
Appurtenances	2,500.00	3,000.00	2,200.00	2,400.00	6,375.00	2,762.00	4,000.00	4,703.00	3,500.00
Totals	*$181,525 †$201,525	*$186,341 †$213,341	*$209,200 †$234,850	*$211,023 ‡$216,023	*$212,215	*$217,167	*$220,644 †$247,894	*$222,136 ‡$249,686	*$224,122 .....

*Amount of bid with Items 17 and 18 omitted. †Amount of bid with Items 17 and 18 included. ‡Amount of bid with Item 18 omitted.

	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)
10 acres grubbing	$200.00	$125.00	$250.00	$300.00	$300.00	$200.00	$100.00	$300.00
66,000 cu. yds. general excavation	.44	.37	.50	.48	.50	.60	.60	.50
3,700 cu. yds. trench excavation	.70	.55	.60	1.00	.75	1.50	1.30	1.10
700 cu. yds. rock excavation	5.00	3.00	3.00	2.50	2.50	4.00	2.50	3.30
16,500 cu. yds. borrowed excavation	.78	.60	.80	.80	1.00	.80	.65	1.00
56,000 cu. yds. rolled embankment	.25	.17	.40	.20	.10	.20	.48	.20
5,000 cu. yds. rock fill	.70	.50	.60	1.50	1.00	.80	1.00	1.30
3,000 sq. yds. paving	1.50	.55	.80	.50	.75	1.00	1.60	.80
23,000 cu. yds. general fill	.30	.37	.30	.44	.35	.20	.36	.40
2,000 sq. yds. sodding	.50	.35	.50	.36	.25	.50	.50	.40
7 acres seeding	120.00	30.00	20.00	10.00	100.00	25.00	90.00	60.00
150 cu. yds. rubble masonry	3.60	5.50	7.00	6.00	6.00	5.00	5.00	5.00
975 cu. yds. concrete with reinforcing	10.15	11.00	12.00	12.50	11.50	13.00	13.00	12.00
3,650 cu. yds. concrete in piers and vaulting	8.70	12.50	11.00	11.50	11.50	12.00	9.00	10.25
8,000 cu. yds. all other concrete	8.40	9.00	7.50	8.75	8.50	8.50	8.25	9.00
50,000 lbs. steel reinforcing	.04	.05	.045	.05	.08	.05	.045	.06
4,000 cu. yds. filter gravel	....	1.50	....	....	1.50	1.80	2.10	....
15,000 cu. yds. filter sand	....	1.80	....	....	2.00	1.80	1.85	....
Outside drains	3,000.00	1,750.00	2,500.00	2,100.00	2,500.00	2,700.00	2,100.00	2,000.00
Central drain	3,000.00	2,670.00	3,500.00	2,900.00	3,300.00	3,600.00	3,200.00	3,800.00
Split tile drains	2,000.00	2,475.00	4,500.00	1,700.00	3,300.00	3,200.00	3,500.00	3,700.00
43 tons placing steel pipe	10.00	5.00	8.00	12.00	10.00	10.00	14.00	25.00
300 tons placing cast-iron pipe and gates	7.00	12.50	10.00	15.00	15.00	12.00	14.00	30.00
Sand washers and piping	7,000.00	5,865.00	8,000.00	7,852.00	5,000.00	7,000.00	5,800.00	10,900.00
Office and laboratory	7,500.00	7,750.00	10,000.00	9,500.00	15,000.00	10,000.00	8,500.00	11,200.00
Regulator house	3,000.00	3,750.00	2,600.00	2,820.00	6,000.00	4,000.00	6,500.00	4,200.00
Three filter entrances	2,400.00	4,400.00	2,500.00	2,500.00	6,000.00	2,600.00	1,300.00	5,200.00
Appurtenances	1,800.00	4,900.00	2,250.00	4,200.00	2,500.00	3,100.00	2,900.00	2,400.00
Totals	*$224,361	*$231,995 †$264,995	*$243,204	*$250,590	*$253,742 †$289,742	*$255,080 †$289,280	*$257,002 †$293,752	*$267,737 .....

*Amount of bid with Items 17 and 18 omitted. †Amount of bid with Items 17 and 18 included. ‡Amount of bid with Item 18 omitted.

*SEWER WORK.—Chattanooga, Tenn.—Bids were received on March 17 by the Board of Public Works for the construction of a brick main sewer, on Chestnut St., from Tennessee River to Ninth St. H. F. Van Dusen is Chn. Bd. The bidders and itemized bids were as follows; (A) Brandon & Davis; (B) Bosler & Flynn, Chattanooga; (C) Guild & Co., Chattanooga; (D) Brewer & Jones; (E) NOLL CONSTRUCTION CO., Chattanooga (awarded contract):

	(A)	(B)	(C)	(D)	(E)
Chestnut St. Sewer:					
352 cu. yds. earth excavation, 0'-11' depth..	$0.75	$0.60	$0.70	$0.60	$0.68
5,221 cu. yds. earth excavation, 11'-16' depth..	.85	.70	.75	.79	.77
6,789 cu. yds. earth excavation, 16'-21' depth..	1.10	.90	.82	.85	.82
8,104 cu. yds. earth excavation, 21'-27' depth..	1.25	1.05	.85	.94	.89
1 Exc. channel end of sewer (lump sum)..	25.00	200.00	400.00	345.00	375.00
25 cu. yds. solid rock excavation.....	5.00	4.95	4.00	3.00	4.00
465.8 lin. ft. 44" × 66" brick sewer, 2 rings...	3.91	4.55	5.10	5.25	4.78
465.9 lin. ft. 50" × 75" brick sewer, 2 rings...	4.74	5.10	5.60	5.75	5.30
468.5 lin. ft. 54" × 81" brick sewer, 3 rings...	7.60	8.20	8.30	8.30	8.36
466.4 lin. ft. 58" × 87" brick sewer, 3 rings...	8.16	8.65	9.30	9.30	8.80
464.9 lin. ft. 60" × 90" brick sewer, 3 rings...	8.50	9.00	9.40	9.60	9.00
1,567.6 lin. ft. 63" × 94½" brick sewer, 3 rings..	9.00	9.45	9.50	10.25	9.30
175 lin. ft. 72" circular brick sewer, 3 rings.	9.80	8.35	9.50	9.00	8.50
40 cu. yds. extra brick masonry.....	10.00	9.00	10.50	11.40	10.00
108 lin. ft. 20" × 30" curved brick lateral sewers	3.98	3.65	3.50	3.70	4.95
	5.23	5.00	7.50	6.40	4.50
40 lin. ft. 18" cast-iron pipe.....	1.25	1.61	1.50	1.50	1.67
280 lin. ft. 15" catch-basin connections....	60.00	75.00	77.00	80.00	76.00
4 manholes, Nos. 1 to 4, each.....	85.00	95.00	93.00	94.00	97.00
5 manholes, Nos. 5 to 9, each.....	60.00	50.00	65.00	69.00	63.00
7 manholes, Nos 10 to 16, each.....	7.00	10.00	10.00	10.90	10.00
5 cu. yds. Class "A" concrete.....	.30	.90	.50	.40	.40
848 sq. yds. Telford roadway to be relaid...	.35	.65	.50	.40	.40
924 sq. yds. chert roadway to be relaid.....	.42	.75	.50	.50	.38
1,290 sq. yds. 4" layer of chert.....					
Totals	$56,571	$56,551	$55,580	$57,845	$54,542
Bids for Sewer Work:					
935 24" pipe, 8' to 10' depth.....	2.43	2.55	....	3.20	2.38
28 24" pipe, 10' to 16' depth.....	3.00	3.00	....	3.70	2.75
90 20" pipe, 6' to 8' depth.....	1.84	1.90	....	2.45	1.76
458 20" pipe, 8' to 10' depth.....	1.91	2.01	....	2.65	1.80
310 18" pipe, 6' to 8' depth.....	1.51	1.50	....	1.95	1.52
270 10" pipe, 2' to 6' depth.....	.65	.55	....	.75	.74
222 10" pipe, 6' to 8' depth.....	.76	.73	....	.95	.96
590 10" pipe, 8' to 10' depth.....	.90	.82	....	1.20	1.02
240 10" pipe, 10' to 12' depth.....	1.08	1.10	....	1.60	1.12
1 manhole, 6' depth.....	40.00	40.00	....	55.00	36.00
1 manhole, 7' depth.....	44.35	45.00	....	60.00	40.00
3 manholes, 8' depth.....	48.80	50.00	....	65.00	43.00
5 manholes, 9' depth.....	53.00	55.00	....	70.00	48.00
5 cu. yds. solid rock excavation.....	5.00	5.00	....	3.00	4.00
10 cu. yds. cinder	1.25	1.10	....	3.00	1.50
Totals	$5,532	$5,629	....	$7,345	$5,520

MISCELLANEOUS CONTRACTS.

(Continued from preceding page.)

(denotes that this work is advertised in Engineering News.)*

FENCE GATES.—Fort Riley, Kan.—Four bids were received by Capt. W. M. Whitman, Constr. Q. M., U. S. A., on March 25 for furnishing and erecting 1,145 ft. iron pipe fence, including three pair of gates at this post. The lowest bidder was the Capitol Iron Works, Topeka, Kan., at $1,025.

TRAVELING CRANES.—Bremerton, Wash.—Bids were received March 10 at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for two 10-ton, 3-motor electric traveling cranes. E. B. Rogers, Paymaster-Gen., U. S. N. Contract has been awarded to the CLEVELAND CRANE & CAR CO., Cleveland, Ohio, at $7,040.

DITCH.—Elbow Lake, Minn.—Bids were received on March 25 by O. E. Wold, County Audr., for construction of County Ditch No. 5. Estimated cost, $5,243. Estimated quantity of earth work, 41,945 cu. yds. Morgan & Wilson, St. Cloud, Minn., are Engrs. The contract has been let to WILLIAM H. SHERWOOD, Alexandria, Minn., at $6,746.

*PIERS.—Baltimore, Md.—Bids were received on March 11, by the Harbor Board, Baltimore, for constructing Piers 4, 5 and 6. The bids received were as follows: SANFORD & BROOKS CO., 15 South St., Baltimore, Md., $1,084,000 (awarded contract); McClean Contracting Co., Baltimore, $1,400,000; Bennis Contracting Co., Philadelphia, Pa., $1,600,000.

AMMUNITION.—Washington, D. C.—Bids were received as follows March 25, at the office of the Chief of Ordnance, War Dept., Washington, D. C.; for 100,000 rounds of cartridges: Union Metallic Cartridge Co., Bridgeport, Conn.; Winchester Repeating Arms Co., New Haven, Conn.; United States Cartridge Co., Lowell, Mass.; all bid $19.50 per M.; $19.875 per M. in zinc-lined boxes.

*STRUCTURAL STEEL.—Boston, Mass.—Bids are asked by the Charles River Basin Commission 367 Boylston St., until 2.30 p. m., April 21, for furnishing and delivering structural steel for the lower lock-gate house which is to be built over the lower gate recess at the lock in the Charles River Dam. About 82 tons of structural steel work are to be furnished, consisting of trusses, girders and beams.

DITCH.—Ottawa, Ohio.—Bids were received as follows on March 14, J. T. Maidlow, County Surveyor, for construction of the Buckeye Stove Co. ditch, located in Liberty Township. Work is divided into three sections: Ezra Baker, Arcanum, Ohio, $8,050; J. M. HAMILTON, Paulding, Ohio, $8,000 (awarded contract); Charles Hamilton, Mandale, Ohio, $8,500; A. H. Randolph, McClure, Ohio, $9,139.

*PIER EXTENSION.—Frankfort, Mich.—Bids were received as follows by Col. M. B. Adams, Corps Engrs., U. S. A., Grand Rapids, Mich., on March 25 for extension and repair of south pier at Frankfort, Mich.: Burk, Smith & Nelson, Muskegon, Mich., $15,713; Nelson J. Gaylord, Ludington, Mich., $16,364; Columbian Construction Co., Muskegon, Mich., $16,455; Robert Love, Muskegon, Mich., $17,747.

DREDGING.—New York, N. Y.—Bids were received on March 20 by Allen N. Spooner, Comr. of Docks, for dredging about 150,000 cu. yds. on the East and Harlem rivers, Boros. of Manhattan, Brooklyn, Queens and The Bronx, and in the Borough of Richmond. The bidders were: P. Sanford Ross, 277 Washington St., Jersey City, N. J., 26.9 cts. cu. yd.; R. G. PACKARD & CO., 130 Pearl St., New York, 20⁵/₈ cts. (awarded contract).

*REPAIRING DIKES.—New York, N. Y.—Bids were received as follows on March 24 by Col. John G. D. Knight, Corps Engrs., U. S. A., Army Bldg., New York, for repairing dikes in Rondout Harbor, N. Y.; Phoenix Construction Co., 41 Park Row, New York, $11,414; William Parrott, 178 Washington St., Newburgh, N. Y., $7,751 (recommended for acceptance); Richard Parrott, 51 Overlook Place, Newburgh, N. Y., $9,004.

DITCH.—Chillicothe, Mo.—Bids were received at the County Clerk's office on March 23 for constructing a dredge ditch. It will be 28,625 ft. long. Thos. Hurst, County Engr. Bids for complete ditch, including five highway bridges and six farm crossings, were as follows: J. Kraig, Chula, Mo., $11,900; J. M. Killip, Maquoketa, Iowa, $13,780; N. C. McGinnis, Illinois, $12,150; R. H. McWilliams, Mattoon, Ill., $12,000; Ottumwa Supply Co., Ottumwa, Iowa, $12,290; A. R. Putnam, Valparaiso, Ind., $14,500.

DITCHES.—Duluth, Minn.—Contracts for three ditches that are to be built in St. Louis County during the coming spring and summer have been let as follows: Ditch No. 53, located near Kelsey, 13½ miles long. Awarded to the WARD BROS., of Audubon, Iowa, at 11.3 cts. per cu. yd. Ditch No. 54, located near Meadowlands, 12½ miles long; awarded to WARD BROS., at 11 cts. per cu. yd. Ditch No. 55, located near Island, St. Louis County, 13 miles long; awarded to WARD BROS., at 10.75 cts. per cu. yd.

*WHARF.—Key West, Fla.—Bids were received as follows by Capt. C. H. Lanza, Const. Q. M., Fort Taylor, Key West, on March 14 for construction of a wharf at Fort Taylor, (A) alternate bid; (B) months to complete: Grant Wilkins, Atlanta, Ga., $91,000, (A) $84,000, (B) twelve; Penn Bridge Co., Beaver Falls, Pa., $79,400; (A) $73,400, (B) ten; Ferguson & Ward, Key West, Fla., $105,500, (B) ten; The Snare & Triest Co., New York, $89,980, (B) six; Bryan & Co., Jacksonville, Fla., $98,000, (B) six.

*BARGE CANAL.—Albany, N. Y.—The bids received by F. C. Stevens, Supt. of Public Works, on March 26, for Barge Canal Contract No. 26, which is for dredging a channel in the Hudson River between the south end of Contract No. 27, Station 1245, at Fort Edward, and the north end of Contract No. 1, Station 1286 + 33, a distance of 0.76 of a mile, were (a) Lake Erie Dredging Co., Buffalo, N. Y., $59,795; (b) Empire Engineering Corporation, 71 Broadway, New York, $66,245; (c) engineer's estimate, $60,225. The contract was awarded to the LAKE ERIE DREDGING CO., D. S. Morgan Bldg., Buffalo, N. Y., for $59,795. The itemized prices of the bids were: Clearing, (a) $25; (b) $25; (c) $25; 172,000 cu. yds. excavation, (a) 34¾ cts.; (b) 38½ cts.; (c) 35 cts.

HOSE.—Hartford, Conn.—Bids were received by the Board of Contract and Supply on March 30, for supplying the Fire Department with 3,000 ft. of 2½-in. heavy double knit jacket seamless rubber lined hose, fitted with 3-in. or 2½-in. couplings at the option of the city, warranted to stand a pressure of 500 lbs. and to last under ordinary fire usage for a period of five years. McIntyre couplings preferred. The following bids were received: Eureka Fire Hose Co., Old South Bldg., Boston, Mass., Eureka brand, 80 cts. per ft. for hose and coupling, $1 per foot for Paragon brand. Mineralized Rubber Co., 18 Cliff St., New York, Mineralized brand, 70 cts. per ft. with 2½-in. couplings and 73 cts. per ft. with 3-in. couplings. Cornelius Callahan & Co., New York, Adriatic brand, 80 cts. per ft. without couplings, 85 cts. per ft. with screw couplings, and 90 cts. per ft. with McIntyre couplings. Combination Ladder Co., 32 Park Pl., New York, triple A brand, 73 cts. per ft.; American brand, 83 cts. per ft. These bids will be referred to the Fire Commissioners for consideration.

U. S. POSSESIONS AND CUBA.

WAGON ROAD.—Alaska.—Bids are asked until noon, May 1, by the Board of Road Commissioners, Skagway, Alaska, for constructing a wagon road from the end of the completed road near Hindustuckl, on the Chilkat River, 3½ miles from the town of Haines, to Wells, on the Chilkat River, a distance of approximately 21½ miles. Information on application. Sam. C. Orchard, First Lieut. Third Inf., Secy. of the Board.

SUGAR FACTORY.—Cuba.—A contract at about $1,000,000 for the construction of a large sugar factory in Cuba has been awarded the N. P. PRATT LABORATORY and its subsidiary company, the FULTON FOUNDRY & MACHINE WORKS. The machinery will be installed in the factories owned by the Jucaro and Moron Sugar & Land Co. The water supply necessary for the operation of the factories will be furnished by a 12,000,000-gallon pump, more than half as large as the pump which the city of Atlanta is in the process of buying. The contract is one of the largest awarded and the Atlanta company is to be congratulated. It is believed that other business of a like nature will follow. All of the machinery will be made in the Atlanta shops, as well as much of the apparatus.

For other Proposal Advertisements see pages 47, 48, 49, 50, 54, of Advertisements and Construction News page 116.

SEWER.

Office of the Commissioners of Sewerage of Louisville, Incorporated.

Sealed proposals for the construction of a sewer, known as Section "A" of the Southern Outfall Sewer, Contract No. 6 of the Comprehensive System of Sewerage for the City of Louisville, Kentucky, will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, April 29th, 1908.

This work consists mainly of a sewer 10 ft. 1½ ins. high by 10 ft. 7 ins. wide, 2,137 ft long, including an outlet structure.

The principal items in the Engineer's estimate of the work are approximately as follows:

Excavation	2,137 linear feet
Concrete	3,624 cubic yards
Reinforcing steel bars....	235,000 lbs.
Piles	4,030 linear feet
Vitrified brick invert lining	2,390 square yards

Plans and specifications may be seen at the office of the Commissioners; at the office of this paper, and at the office of the Consulting Engineer, Harrison P. Eddy, of Metcalf & Eddy, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposals for Section 'A' of the Southern Outfall Sewer," and addressed to the Commissioners of Sewerage, 603, 605 and 607 Equitable Building, Louisville, Ky. Each bid shall be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid or a "Bidder's Bond," as described in the form of proposal.

P. L. ATHERTON, Chairman.
CHAS. P. WEAVER, Secy and Treas.
J. B. F. BREED, Chief Engineer. 14-3t

HOSPITAL BUILDINGS.

Office of the Pennsylvania Commission to Erect a State Hospital for the Insane, Room 207, 1435 Chestnut Street, Philadelphia, Penna.

Sealed proposals for the construction of new and finishing of present buildings pertaining to the Homeopathic Hospital for the Insane for the Commonwealth of Pennsylvania, in Hanover Township, Lehigh County, Pennsylvania, will be received at this office until 12 o'clock noon, Tuesday, April 21st, 1908.

Plans and specifications and form of proposal, etc., may be had on application at the office of Philip H. Johnson, Architect, 1824-25 Land Title Building, Philadelphia, Pa., by depositing the sum of Two Hundred Dollars ($200.00), One Hundred and Ninety-Five Dollars ($195.00) of which will be refunded upon the return of the plans and specifications.

Bids from others than those engaged in the actual business in the general branches herein mentioned will not be entertained or considered.

The Commission reserves the right to accept as a whole or in part or reject any or all bids as may be deemed best for the interests of the Commonwealth.

W. T. MARSHALL, Chairman.
F. T. L. KEITER, Secretary.
WM. H. KEYSER, Treasurer.
FRANKLIN T. CHENEY, Clerk. 14-2t

PROPOSALS FOR BORINGS.—Board on Examination and Survey of Mississippi River, Liggett Building, St. Louis, Mo., April 1, 1908.—Sealed proposals for making test borings in river bottom lands between St. Louis and Cairo will be received here until 12 noon, standard time, April 30, 1908, and then publicly opened. Information furnished on application. G. R. LUKESH, Capt. Engrs., Recorder. 14-4t

PUMPING ENGINES FOR SALE.

Wilmington, Del., March 28, 1908.

The Water Department offers for sale four horizontal pumping engines of the following capacities: One Wetherill compound Corliss crank and fly-wheel pumping engine, ten million gallons, head 145 ft.; one Worthington duplex compound pumping engine, seven million gallons, head 145 ft.; one Snow compound pumping engine, [illegible] million gallons, head 200 ft.; one Remington compound pumping engine, three million gallons, head 120 ft.; also auxiliary pump, one air compressor and two 100-HP. B. & W. boilers.

Tenders will be received from 1.30 p. m. Monday, May 4, 1908, at the office of the Water Department, S. E. cor. King and Sixth streets, Wilmington, Del. Full particulars may be obtained at the office of the Department. The right is reserved to reject any or all tenders.

THEODORE A. LEISEN, Chief Engineer.
14-1t

SANITARY SEWERS AND WATER-WORKS.

Versailles, Ky.

Sealed proposals will be received by Mayor and Council of Versailles, Ky., for complete system of sanitary sewers and water-works on Monday, April 20, 1908, and then opened.

Plans and specifications may be seen at office of City Clerk or Engineers.

H. C. TAYLOR, Mayor.
DRAKE C. NAIVE, Clerk.
THE HOLMBOE COMPANY, Engineers,
Lincoln Bank Bldg., Louisville, Ky. 14-1t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., March 31, 1908.—Sealed proposals will be received at this office until 3 o'clock p. m., on the 12th day of May, 1908, and then opened, for the enlargement, extension, remodeling, etc. (including plumbing and water supply system, etc.), of the U. S. Assay Office at New York City, New York, in accordance with drawings and specification, copies of which may be had at the office of the Superintendent of Construction of the New Custom-House, at New York, N. Y., or at this office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 14-2t

Situations Open

WANTED—Elevator inspector by Casualty Insurance Company to inspect elevators in New York City and vicinity. Address "K. A. 14," Engineering News, New York. 14-1t

Miscellaneous Wants

Air Compressor Wanted

to rent for season or purchase; second-hand, straight line machine, 400 to 500 ft. capacity. Address F. W. SCHMIDT, Morristown, N. J. 14-2t

FOR SALE

Black Powder For Sale

1,300 lbs. of FFF Black Blasting Powder in absolutely first-class condition, for sale at one-half original price.

THE B. D. PIERCE, JR., CO., Bridgeport, Conn. 14-1t

FOR SALE CHEAP.

Marion Steam Shovel Model G

2½-yard dipper. Ready for delivery. In first-class condition.

EASTERN CONCRETE STEEL COMPANY, Buffalo, N. Y. 14-4t

WHITE GRANITE QUARRY.

Rare opportunity to buy an unusually attractive partly developed granite property. Convenient to N. Y. City. Right on N. Y., N. H. & H. R. R. Abundance of stone, fine texture, uniform color, free from iron, superior for first-class work. Market for crushed stone. No Waste. Good chance to buy and sell at large profit. Not offered before. Reasons—advanced age, physical inability. Address "I. A. 14," Engineering News, New York. 14-1t

FOR SALE.

A One Horse Power Exhaust Fan

with a Cutler Hammer Mfg. Co. controller. Apply

SLAWSON & HOBBS,
284 Columbus Ave., New York City. 14-1t

CONTENT

CONSTRUCTION NEWS:
Plans and specification
List of Contracts Pen
Railways .....
Electric Railways ...
Light and Power Plant
Bridges ....
Buildings .....
Water Supply and Irri
Sewerage .....
Garbage Disposal ...
Streets and Roads ...
Manufacturing Plants
Miscellaneous Contra
Contract Prices .....
U. S. Possessions and
CIVIL SERVICE EXAM
INDUSTRIAL NOTES
PROPOSALS .....

CONSTRUCTIO

PLANS AND SPECIFIC

(denotes that this wo Engineering*

The following Plans (
(S.) are on file and may
of The Engineering R
220 Broadway, New Yor

Bids close. Work. P

4-13*Stone road, Freeb
4-15*Dam, Portland,
4-17*Dredging, Detroit
4-17*Breakwater, Bost
4-17*Pumping engine,
N. Y. .....
4-22*Bridges, Philadelp
4-20*Pier, dredging,
Wis. .....
5- 1 Floating crane, C
5- 1*Reduction works,
Ohio .....
5- 1*Concrete seawall,
Fla. .....
5-16 Lighting system,
Colo. .....

LIST OF CONTRA

LIGHT, HEAT AND

4-11 Conduit, etc., Be
4-11 Conduits, etc., P
4-13 Elec. equipment,
4-13 Lights, Galvesto
4-14 Supplies, Washi
4-15 Elec. supplies, W
4-18 Power-house, etc
4-20 Elec. equipment,
4-21 Light plant, Li
4-23 Elec. plant, etc.
4-23 Power-house, et
4-29 Electric supplie
5-16 Lighting system
Colo. .....

DRI

4- 9 Wooden bridge,
4- 9 Bridges, Golden
4- 9 Bridge, Middlet
4-10 Bridges, Kansas
4-10*Bridge, Readin
4-10 Bridges, Fort
4-11 Steel bridges,
4-11 Bridge, Findlay
4-13 Bridges, New P
4-13 Substructure, N
4-14 Bridge, Eureka
4-15*Bridge, Mamaro
4-15 Bridge, Chicag
4-16 Culvert, Martin
4-16 Bridges, Alhar
4-17 Bridge, Castle
4-18 Bridge, Fergu
4-18 Superstructure,
4-20 Substructure,
4-20 Bridge, San A
4-20 Bridge, Emera
4-20 Bridge, West
4-20 Superstructure,
4-22*Bridges, Phila
4-25 Bridge, Clevel
4-25 Superstructure,
4-30*Viaduct, Lync
5- 1*Bridges, Vanc
5- 1 Bridge repair,
5-10 Bridge, Virdi
5-11 Bridge, Lane,

BUI

4-10*Post-office, J
4-11*Post-office, B
4-11 Factory, Toro
4-13 Bakery (Mfg.
4-13 Heating, etc.,
4-14 post-office, T
4-14 Hospital, Cel
4-15*Buildings, Pa
4-15 Post-office, It
4-15 Terminals, et
4-15 Creamery (M
Obispo, Cal
4-15 School, Roch
4-16 School plans
4-16 Laundry, etc
Y. (Mfg. P
4-16 Elevators, W
4-18 Prison, St.
4-20*Heating, Gr
4-20*Plans, etc.,
4-20 School repair
4-20 Heating, etc.
4-21 Library, Cin
4-21*Hospital, Wh
4-21*Hospital, Pi
4-23 Heating etc.
4-25*Staircases,
4-27 Courthouse,